Appendix A

Paragon Analytics, Inc.
Statement of Policy
Laboratory Information Management System (LIMS)

Paragon's Laboratory Information Management System (LIMS) is a data management system, which is used to track, manage, and report data to our clients. Throughout this process, it is the responsibility of Paragon Analytics, Inc and its employees to maintain strict client confidentiality agreements regarding the handling of client's data and their samples. Consequently, because the LIMS is used as a tool to handle and process all data through the laboratory; it is imperative that all employees follow the basic LIMS operating guidelines listed below. Please read and follow these policy statements carefully; then, upon agreement with the information presented in this form, be sure to sign and return it to the Quality Assurance Officer (QAO).

These policy statements are not intended as a substitute for proper LIMS training—LIMS training will be conducted by authorized personnel on topics that are related to the job function of each employee.

1. Prior to using LIMS, employees must have received proper training in all LIMS processes that are required to help them perform their job. The training schedule will be coordinated between individual Department Managers and the LIMS Manager.
6. Employees must have a user account assigned to them by the LIMS Manager (Mark Roche') before they are allowed to use the LIMS. 'Sharing' or using another persons account is strictly prohibited.
7. All changes to any validated data contained within LIMS must have prior approval by the department manager—**unauthorized changes are a serious violation of employee conduct and may result in disciplinary action, including immediate dismissal**. Accidental changes or errors in data entry should immediately be reported to the department supervisor or the LIMS manager.
8. Because of the sensitive nature of our business, LIMS has been equipped with a full set of security and auditing features. Employees are assigned to groups and they are given specific permissions to access menus and operations in LIMS, which are pertinent to the tasks they are required to perform. **Any employee who attempts to circumvent these features in any way will be subject to disciplinary action, including immediate dismissal**.
9. Invariably, in the course of LIMS operations, errors may occur in the application. Some of these errors can lead to extensive data loss, system downtime and, therefore, rework. **When these errors occur, it is the employee's responsibility to immediately notify the LIMS Manager so that data loss may be avoided or minimized**. The list provided below shows some of the more serious system errors that may occur in LIMS.
    10. DISK OR NETWORK ERROR
    11. DISK I/O ERROR
    12. SYSTEM OR NETWORK ERROR
    13. #NAME#
    14. NETWORK CONNECTION ERROR
6. Some processes in LIMS may require the system to access thousands or, even hundreds of thousands of records at a time. Therefore, some operations in LIMS may take several minutes to complete. During this processing time, it may appear as if your computer is locked up or not responding. Although there are times when it may be appropriate to forcibly shutdown LIMS when this occurs, **employees must first have the direct approval of the LIMS Manager prior to attempting this shutdown process**. Improper shutdown of LIMS may result in *extensive data loss, system downtime, and rework*.

I have read the guidelines listed above regarding operation of the Laboratory Information Management System (LIMS) and I agree to follow them as specified in this document.

_____ _____

Employee Signature *Date Signed*

PARAGON ANALYTICS, INC.
225 Commerce Drive ◆ Fort Collins, CO 80524 ◆ (800) 443-1511 ◆ (970) 490-1511 ◆ FAX (970) 490-1522

January 01, 2003

RE: Ethics Policy and Data Integrity Agreement

Dear Employee:

The intent of this letter is to clarify Paragon's requirements and expectations for behavior in the work place. Paragon requires that all employees conduct themselves with honesty and integrity at all times. It is Paragon's expectation that all employees exhibit professionalism and respect for clients and each other in all interactions and tasks. Paragon requires that every employee abide by the following guidelines:

- Every Paragon employee is responsible for the propriety and consequences of his or her actions.
- Every Paragon employee is required to conduct him or herself in a professional manner toward all clients, regulators, auditors, vendors, and other employees. Professional conduct relates to honesty, integrity, respect, and tolerance for cultural diversity.
- Every Paragon employee must perform all assigned duties in accordance with Paragon's established quality assurance policies and quality control procedures that have been developed in substantial conformity with contractual and regulatory requirements.
- Paragon expects all employees to use professional judgment and to document all situations thoroughly. It is the responsibility of each Paragon employee to consult the Department Manager or Quality Assurance Manager when atypical or unusual situations occur and to disclose and document our decision-making process.
- Every employee must disclose any instance of noncompliance. Paragon reports all noncompliance issues to the client, if data are affected by the noncompliance.
- It is the responsibility of each Paragon employee to report any suspicion of unethical conduct or fraudulent activities to the Quality Assurance Manager or the Laboratory Director.

The following list provides examples of improper, unethical, or illegal practices that will not be tolerated by Paragon.

- Improper use of manual integrations performed to meet calibration or method quality control criteria (e.g., peak shaving or peak enhancement performed solely to meet quality control requirements).
- Intentional misrepresentation of the date or time of analysis (e.g., intentionally resetting a computer system's or instrument's date and/or time to make it appear that a date/time requirement has been achieved).
- Falsification of records to meet method requirements (e.g., sample records, logbooks, sample results, LIMS records).
- Reporting results without analyses to support the results (i.e., dry labbing).
- Selective exclusion of data to meet quality control criteria (e.g., eliminating initial calibration points without technical justification).
- Misrepresentation of laboratory performance by presenting calibration data or quality control limits within data reports that are not relevant to the results being reported
- Notation of matrix interference as basis for exceeding acceptance limits in interference-free matrices.
- Unwarranted manipulation of computer software (e.g., improper background subtraction to meet ion abundance criteria for GC/MS tuning compounds; chromatographic baseline manipulations).
- Improper alteration of analytical conditions from standard analysis to sample analysis (e.g., modifying EM voltage, changing temperature or eluent profiles to shorten analytical run time).
- Misrepresentation of quality control samples (e.g., adding surrogates or tracers after sample extraction, omitting preparation steps for quality control samples; over- or under-spiking).
- Reporting results from the analysis of one sample for another (file substitution).
- Intentional plagiarism or willful misrepresentation of another employee's work as one's own (e.g., IPR or PT study).

Paragon provides analytical services for the Department of Defense (DoD), the Department of Energy (DOE), and engineering/consulting companies that provide services to the DoD and DOE. Any unethical conduct, such as willful falsification, concealment, or alteration of a material fact or the false, fraudulent or fictitious statement or representation made by any person performing work under any contract may subject that person to prosecution and punishment in accordance with applicable Federal statutes. Any breach of ethics will result in disciplinary action, up to and including termination, according to Paragon's disciplinary guidelines.

Sincerely,

Donald F. Gipple
President and Laboratory Director
Paragon Analytics, Inc.

I acknowledge that I have read, understood, and agree to follow Paragon's Ethics Policy while employed by Paragon:

_____
Printed Name

_____
Signature

_____
Date

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

September 5, 2001

THE INSPECTOR GENERAL

Open letter to the environmental analytical laboratory community:

This letter is intended to draw your attention to issues of misconduct or unethical practices in analytical laboratories, related to inappropriate manipulation of laboratory data, that may also constitute laboratory fraud.

The EPA Office of Inspector General (EPA-OIG) has seen an increase in the number of allegations that environmental laboratories inappropriately manipulate laboratory data. This has been defined by my Office as: "The intentional falsification of analytical and quality assurance results." The falsification of environmental data undermines the ability of federal, state, tribal, and local governments, and the regulated community, to make environmental decisions necessary to protect the health and safety of the general public.

In a continuing effort to deter these practices, the EPA-OIG is working closely with EPA's Criminal Investigations Division, other federal investigative organizations, and the Department of Justice to investigate and, as appropriate, prosecute all allegations of laboratory fraud. These efforts to date have resulted in substantial fines, penalties, incarcerations, federal suspension and debarment actions, and laboratory closures.

Of particular concern is the fraudulent practice of using improper manual integrations by chromatographic analysts to falsify test results in initial calibrations, continuing calibrations, and surrogate recoveries, to make the control samples appear to meet quality control requirements. The routine practice of laboratory management spot checking a percentage of manual integrations performed in your laboratories would send a strong message to your laboratory staff that you are committed to ensuring that they follow proper laboratory procedures, identify improprieties, and correct them immediately. All too often, EPA-OIG's laboratory fraud investigations involve significant data manipulations conducted by multiple analysts using many analytical methods over several years. These investigations can raise questions about the reliability of all the data from a laboratory.

A laboratory's best protection against fraudulent activity is the effective implementation of strong, proactive, and independent ethical practices and Quality Systems. The Quality System should clearly establish and identify acceptable and unacceptable analytical practices. In addition,

data authenticity checks should be incorporated into laboratory peer reviews, data verification, and/or Quality Assurance Officer's reviews to assure product integrity and to limit liability and exposure to "rogue analysts."

There are many factors that can contribute to misconduct: poor training, ineffective ethics programs, shrinking markets for analytical services, and greater economic incentives for laboratories to implement cost-cutting measures. Nevertheless, laboratory management is responsible for maintaining effective operations. To better ensure proper conduct, management can:

- Create a corporate environment conducive to quality operations, ethical standards, personal integrity, and accountability. This environment contributes to effective fraud prevention beyond anything industry standards and government oversight can accomplish.

- Plan for routine "down-time" to perform instrument maintenance and repairs to meet method quality control requirements. These efforts can be marketed as a hallmark of quality assurance and technical ability.

- Acknowledge that improving quality promotes profits and an *increase* in business because a reputable laboratory *attracts* business.

I encourage you to evaluate your Quality System, with particular attention to the detection and prevention of improper laboratory activities. OIG staff are available to work with the environmental laboratory community and other stakeholders to encourage ethical laboratory operations and to prevent fraud. Any inquiries or comments regarding laboratory fraud should be directed to Emmett Dashiell, Acting Assistant Inspector General for Investigations, at (202) 260-3404.

Sincerely,

/s/

Nikki L. Tinsley

Paragon Analytics, Inc
225 Commerce Drive, Fort Collins, CO 80521 (970) 490-1511 FAX (970) 490-1522

Memorandum

Date: February 7, 2003

Procedure for reporting fraud, waste, abuse, misuse, corruption, criminal acts, or mismanagement to the Department of Energy (DOE), Office of the Inspector General under DOE Order 221.1, or to the USEPA Office of the Inspector General.

Applicability:

This Order applies to all DOE major facilities management contractors and all other contractors as contractually mandated. This Order includes Paragon's NTS contract, DOE contracts, and all work performed under the aegis of the USEPA.

Responsibility:

Paragon is required to notify our employees annually of their duty to report allegations of fraud, waste, abuse, misuse, corruption, criminal acts, or mismanagement relating to all EPA programs, operations, facilities, contracts, or information technology systems to the appropriate authorities. Employees may report allegations to the Paragon Analytics, Inc. representatives listed below, and/or to the USDOE Office of the Inspector General and the USEPA, using the numbers listed below.

Employees reporting such allegations are also afforded protection under the US DOE General Provision DEAR 952.203.70 "Whistleblower Protection for Contractor Employees" policy to which Paragon also adheres.

Contact Points:

Paragon Analytics: Donald F. Gipple, President	(970) 490-1511, ext.217	
Paragon Analytics: Debra B. Henderer, QA Manager	(970) 490-1511, ext.201	
US DOE Office of the Inspector General:	(800) 541-1625	USDOE Hotline
US EPA Office of the Inspector General:	(888) 546-8740	USDOE Hotline

Program Specifics:

The specifics of the associated US DOE & EPA policies are enclosed in the attached US EPA and DOE Orders and Directives. It is Paragon's policy to adhere to all aspects of the attached Directives and Orders, US DOE Order 221.1, DOE Directive 970.5204-2 (48 CFR 970.0470-2), 10 CFR Part 708, DOE Directive 970.5223-1, and DEAR 952.203.70. (There are 25 total pages of attachments.)

U.S. Department of Energy
Washington, D.C.

ORDER

DOE O 221.1

Approved: 03-22-01
Sunset Review: 03-22-03
Expires: 03-22-05

SUBJECT: REPORTING FRAUD, WASTE, AND ABUSE TO THE OFFICE OF INSPECTOR GENERAL

1. OBJECTIVE. To establish policies and procedures for reporting fraud, waste, abuse, misuse, corruption, criminal acts, or mismanagement to the Department of Energy (DOE), Office of Inspector General (OIG).

2. CANCELLATION. DOE 2030.4B, REPORTING FRAUD, WASTE, AND ABUSE TO THE OFFICE OF INSPECTOR GENERAL, dated 5-18-92. Cancellation of this Order does not, by itself, modify or otherwise affect any contractual obligations to comply with the Order. Canceled Orders that are incorporated by reference in a contract will remain in effect until the contract is modified to delete the reference to the requirements in the canceled Orders.

3. APPLICABILITY.

   a. DOE Elements. This Order applies to all DOE Headquarters and field elements, including the National Nuclear Security Administration (NNSA).

   b. Contractors. This Order applies to all DOE major facilities management contractors and all other contractors as contractually mandated. Contractor requirements are listed in the Contractor Requirements Document (CRD), Attachment 1. Contractors are responsible for—

      (1) compliance with the requirements of the CRD of this Order regardless of the performer of the work, and

      (2) flowing down the requirements of the CRD of this Order to subcontracts to the extent necessary to ensure contractors' compliance with the requirements.

4. POLICY.

   a. The OIG shall seek to uncover fraud, waste, abuse, misuse, corruption, criminal acts, or mismanagement relating to DOE programs, operations, facilities, contracts, and information technology systems, and ensure that corrective action is taken. When

appropriate, referral of allegations/information shall be made by the OIG to other appropriate law enforcement entities, prosecutors, other DOE components, or other agencies.

b. Employees of DOE and its contractors who have information about actual or suspected violations of law, regulations, or policy including fraud, waste, abuse, misuse, corruption, criminal acts, or mismanagement relating to DOE programs, operations, facilities, contracts, or information technology systems shall immediately notify the appropriate authorities. Notwithstanding the above, employees should, when appropriate, report directly to the OIG any information concerning alleged wrongdoing by DOE; its contractors, subcontractors, grantees, or other recipients of DOE financial assistance; or their employees.

c. DOE managers and contractor managers must ensure that reprisals are not taken against their employees who report fraud, waste, abuse, misuse, corruption, criminal acts, or mismanagement.

5. RESPONSIBILITIES.

a. Office of Inspector General

(1) Notifies all DOE employees, at least annually, of their duty to report allegations of fraud, waste, abuse, misuse, corruption, criminal acts, or mismanagement relating to DOE programs, operations, facilities, contracts, or information technology systems, as well as, of OIG responsibilities in this area.

(2) Operates and publicizes a telephone hotline to permit individuals/entities to report allegations of fraud, waste, abuse, misuse, corruption, criminal acts, or mismanagement relating to DOE programs, operations, facilities, contracts, or information technology systems to the OIG.

(3) Processes allegations in accordance with OIG operations and procedures.

(4) Disseminates to the Lead Program Secretarial Office (LPSO) for their respective facilities and organizations, procedures for reporting allegations of fraud, waste, misuse, abuse, corruption, criminal acts, or mismanagement relating to operations, facilities, contracts, or information technology systems. Also, disseminates these procedures to all applicable DOE contracting officers for further dissemination to DOE contractors, including contractors of NNSA, and their employees.

(5) Designates an OIG representative for each DOE facility or site, and ensures that the Inspector General representative communicates regularly and on a timely basis with the applicable DOE officials at that facility or site.

(6) Notifies the Director of Security Affairs (SO-20) and the Chief of Defense Nuclear Security, as appropriate, of allegations involving the security of special nuclear material, classified computer systems, and classified information.

(7) Notifies the Deputy Administrator for Naval Reactors (NR-1), as appropriate, of allegations involving the security of special nuclear material or classified or sensitive information under that office's cognizance.

(8) Notifies the Chief Information Officer (SO-30), as appropriate, of allegations relating to the security of unclassified computer systems and sensitive unclassified automated information.

(9) Notifies the Director of Counterintelligence (CN-1)/Chief of Defense Nuclear Counterintelligence, as appropriate, of allegations regarding espionage, including approaches made by representatives of other governments for the commission of espionage or the collection of information.

(10) Notifies the DOE Designated Agency Ethics Official (GC-80), as appropriate, of alleged violations of Standards of Conduct.

(11) Notifies the Deputy Assistant Secretary for Oversight (EH-2), as appropriate, of allegations concerning environmental, safety, or health operational hazards.

(12) Notifies appropriate Heads of Departmental Elements of allegations involving matters under their purview, unless the OIG determines that such notification might jeopardize the successful progress or completion of an inquiry.

b. Heads of All Field Elements, the Administrator for Nuclear Security, and the Director, Office of Management and Administration (MA-1), must ensure that the OIG hotline telephone number is:

(1) Displayed in common areas under their cognizance, such as cafeterias, public telephone areas, official bulletin boards, reception rooms, and building lobbies.

(2) Published in telephone books and employee newsletters under their cognizance.

c. Heads of All Field Elements, the Administrator for Nuclear Security, and the Director, Office of Procurement and Assistance Management (MA-5), must ensure that:

(1) Contractors under their cognizance are required to notify their employees annually of their duty to report allegations of fraud, waste, abuse, misuse, corruption, criminal acts, or mismanagement relating to DOE programs, operations, facilities, contracts, or information technology systems to the appropriate authorities. The annual notification shall include the provision that, notwithstanding the above, DOE contractor employees should, when appropriate, report directly to the OIG any information concerning alleged wrongdoing by DOE; its contractors, subcontractors, grantees, or other recipients of DOE financial assistance; or their employees.

(2) Contractors under their cognizance are required to display the OIG hotline telephone number in common areas of buildings, such as cafeterias, public telephone areas, official bulletin boards, reception rooms, and building lobbies.

(3) Contractors under their cognizance are required to publish the OIG hotline telephone number in telephone books and newsletters under the contractor's cognizance.

(4) All alleged violations of law, regulations, or policy, including incidents of fraud, waste, abuse, misuse, corruption, criminal acts, or mismanagement which have been referred to Federal, State, or local law enforcement entities are also reported to the OIG within a reasonable period of time, but not later than 24 hours.

d. Employees of DOE and its contractors must:

(1) Report actual or suspected violations of law, regulations, or policy including fraud, waste, abuse, misuse, corruption, criminal acts, or mismanagement relating to DOE programs, operations, facilities, contracts, or information technology systems to the appropriate authorities. Notwithstanding the above, employees should, when appropriate, report directly to the OIG any information concerning alleged wrongdoing by DOE; its contractors, subcontractors, grantees, or other recipients of DOE financial assistance; or their employees.

(2) Report to the OIG any allegations of reprisals taken against employees who have reported fraud, waste, abuse, misuse, corruption, criminal acts**,** or mismanagement relating to DOE programs, operations, facilities, contracts, or information technology systems.

6. REFERENCES.

a. The Inspector General Act of 1978, Public Law 95-452, as amended, 5 United States Codes (U.S.C.), App. 3, sets forth authority and functions of the Inspector General.

b. Public Law 101-12, Whistleblower Protection Act of 1989, which strengthens the protection available to Federal employees against prohibited personnel practices.

c. Title 10 CFR Part 1010, Conduct of Employees, which requires an employee to report fraud, waste, abuse, and corruption in DOE programs.

d. Title 18, Federal Criminal Code and Rules, Crimes and Criminal Procedures, as amended, which prescribes rules that govern all criminal procedures in the courts of the United States.

e. Executive Order 12333, "United States Intelligence Activities," dated 12-4-81, which designates the Department of Energy as a member of the Intelligence Community.

f. Executive Order 12863, "President's Foreign Intelligence Advisory Board," dated 9-13-93, which establishes intelligence reporting requirements for the OIG.

g. Executive Order 12344, "Naval Nuclear Propulsion Program," dated 1-27-82, which preserves the basic structure, policies, and practices developed for the program in the past and establishes additional policies, organization, and administrative procedures to ensure that the program will continue to function with excellence.

h. Executive Order 12731, "Principles of Ethical Conduct for Government Officers and Employees," dated 10-17-90, which establishes the requirement for Government employees to disclose fraud, waste, abuse, and corruption.

i. DOE N 205.1, UNCLASSIFIED COMPUTER SECURITY PROGRAM, dated 7-26-99, which establishes requirements, policies, responsibilities, and procedures for developing, implementing, and sustaining a DOE unclassified computer security program.

j. DOE O 221.2, COOPERATION WITH THE OFFICE OF INSPECTOR GENERAL, dated 03/22/01, which establishes DOE policy for cooperating with the OIG.

k. DOE O 471.1A, IDENTIFICATION AND PROTECTION OF UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION, dated 6-30-00, which establishes policy and procedures for identifying Unclassified Controlled Nuclear Information (UCNI) and for reviewing and marking documents and material containing UCNI.

7. CONTACT. Questions concerning this Order should be addressed to the Office of Inspector General, 202-586-3202.

SPENCER ABRAHAM
SECRETARY OF ENERGY

970.5204-2 -- Laws, regulations, and DOE directives.

As prescribed in 48 CFR 970.0470-2, insert the following clause:

Laws, Regulations, and DOE Directives (DEC 2000)

(a) In performing work under this contract, the contractor shall comply with the requirements of applicable Federal, State, and local laws and regulations (including DOE regulations), unless relief has been granted in writing by the appropriate regulatory agency. A List of Applicable Laws and regulations (List A) may be appended to this contract for information purposes. Omission of any applicable law or regulation from List A does not affect the obligation of the contractor to comply with such law or regulation pursuant to this paragraph.

(b) In performing work under this contract, the contractor shall comply with the requirements of those Department of Energy directives, or parts thereof, identified in the List of Applicable Directives (List B) appended to this contract. Except as otherwise provided for in paragraph (d) of this clause, the contracting officer may, from time to time and at any time, revise List B by unilateral modification to the contract to add, modify, or delete specific requirements. Prior to revising List B, the contracting officer shall notify the contractor in writing of the Department's intent to revise List B and provide the contractor with the opportunity to assess the effect of the contractor's compliance with the revised list on contract cost and funding, technical performance, and schedule; and identify any potential inconsistencies between the revised list and the other terms and conditions of the contract. Within 30 days after receipt of the contracting officer's notice, the contractor shall advise the contracting officer in writing of the potential impact of the contractor's compliance with the revised list. Based on the information provided by the contractor and any other information available, the contracting officer shall decide whether to revise List B and so advise the contractor not later than 30 days prior to the effective date of the revision of List B. The contractor and the contracting officer shall identify and, if appropriate, agree to any changes to other contract terms and conditions, including cost and schedule, associated with the revision of List B pursuant to the clause of this contract entitled, "Changes."

(c) Environmental, safety, and health (ES&H) requirements appropriate for work conducted under this contract may be determined by a DOE approved process to evaluate the work and the associated hazards and identify an appropriately tailored set of standards, practices, and controls, such as a tailoring process included in a DOE approved Safety Management System implemented under the clause entitled "Integration of Environment, Safety, and Health into Work Planning and Execution." When such a process is used, the set of tailored (ES&H) requirements, as approved by DOE pursuant to the process, shall be incorporated into List B as contract requirements with full force and effect. These requirements shall supersede, in whole or in part, the contractual environmental, safety, and health requirements previously made applicable to the contract by List B. If the tailored set of requirements identifies an alternative requirement varying from an ES&H requirement of an applicable law or regulation, the contractor shall request an exemption or other appropriate regulatory relief specified in the regulation.

(d) Except as otherwise directed by the contracting officer, the contractor shall procure all necessary permits or licenses required for the performance of work under this contract.

(e) Regardless of the performer of the work, the contractor is responsible for compliance with the requirements of this clause. The contractor is responsible for flowing down the requirements of this clause to subcontracts at any tier to the extent necessary to ensure the contractor's compliance with the requirements.

(End of Clause)

[Code of Federal Regulations]
[Title 10, Volume 4, Parts 500 to end]
[Revised as of January 1, 1999]
From the U.S. Government Printing Office via GPO Access
[CITE: 10CFR708.3]

[Page 270]

TITLE 10--ENERGY

CHAPTER III--DEPARTMENT OF ENERGY

PART 708--DOE CONTRACTOR EMPLOYEE PROTECTION PROGRAM--Table of Contents

Subpart A--General Provisions

Sec. 708.3 Policy.

It is the policy of DOE that employees of contractors at DOE facilities should be able to provide information to DOE, to Congress, or to their contractors concerning violations of law, danger to health and safety, or matters involving mismanagement, gross waste of funds, or abuse of authority, to participate in proceedings conducted before Congress or pursuant to this part, and to refuse to engage in illegal or dangerous activities without fear of employer reprisal. Contractor employees who believe they have been subject to such reprisal may submit their complaints to DOE for review and appropriate administrative remedy as provided in Secs. 708.6 through 708.11 of this part.

see attached 8 pages

(defined in §708.4) performing work on-site at DOE-owned or -leased facilities, unless the procedures contained in 29 CFR part 24, ''Procedures for the Handling of Discrimination Complaints under Federal Employee Protection Statutes,'' are applicable. The procedures of this part 708 do not apply to contractor employees at government-owned, government-operated facilities, or to complaints of reprisal stemming from, or relating to, discrimination by contractors on a basis such as race, color, religion, sex, age, national origin, or other similar basis not specifically discussed herein. The protections afforded by this part are not applicable to any employee who, acting without direction from his or her employer, deliberately causes, or knowingly participates in the commission of, any misconduct set forth in §708.5 that is the subject of the disclosure.

(c) For complaints not covered by §708.5(a), the Director, at his discretion and for good cause shown, may accept a complaint for processing under this part. However, in no event will coverage under the rule be extended to employees of contractors over whom DOE does not exercise enforcement authority with respect to the requirements of this part. A determination by the Director not to accept a complaint pursuant to this subsection may be appealed to the Secretary of designee.

§708.3 Policy.

It is the policy of DOE that employees of contractors at DOE facilities should be able to provide information to DOE, to Congress, or to their contractors concerning violations of law, danger to health and safety, or matters involving mismanagement, gross waste of funds, or abuse of authority, to participate in proceedings conducted before Congress or pursuant to this part, and to refuse to engage in illegal or dangerous activities without fear of employer reprisal. Contractor employees who believe they have been subject to such reprisal may submit their complaints to DOE for review and appropriate administrative remedy as provided in §§708.6 through 708.11 of this part.

§708.4 Definitions.

For purposes of this part—

Contractor means a seller of goods or services who is a party to a procurement contract as follows:

(1) A Management and Operating Contract;

(2) Other types of procurement contracts; but this part shall apply to such contracts only with respect to work performed on-site at a DOE-owned or -leased facility; or

(3) Subcontracts under paragraphs (1) or (2) of this definition; but this part shall apply to such subcontracts only with respect to work performed on-site at a DOE-owned or -leased facility.

Day or *days* mean(s) calendar day(s).

Director means, unless otherwise indicated, the Director, Office of Contractor for Employee Protection.

Discrimination or *discriminatory acts* mean(s) discharge, demotion, reduction in pay, coercion, restraint, threats, intimidation, or other similar negative action taken against a contractor employee by a contractor, as a result of the employee's disclosure of information, participation in proceedings, or refusal to engage in illegal or dangerous activities, as set forth in §708.5(a) of this part.

Employee or *employees* mean(s) any person(s) employed by a contractor, and any person(s) previously employed by a contractor if such prior employee's complaint alleges that employment was terminated in violation of §708.5. The determination of whether a person has standing as an employee shall be made without regard to the on- or off-site locale of the person's work performance.

Field organization means a DOE field-based office that is responsible for the management, coordination, and administration of operations under its purview.

Head of Field Element means an individual who is the manager or head of a DOE operations office, other field office, or field organization.

Hearing Officer means an individual appointed by the Director, Office of Hearings and Appeals, pursuant to §708.9.

Management and Operating Contract means an agreement under which DOE

contracts for the operation, maintenance, or support, on its behalf, of a Government-owned or -leased research, development, special production, or testing establishment wholly or principally devoted to one or more of the programs of DOE.

Official of DOE means any officer or employee of DOE whose duties include program management or the investigation or enforcement of any law, rule, or regulation relating to Government contractors or the subject matter of a contract.

Party or *parties* mean(s) any employee, contractor, or other party named in a proceeding under this part.

Work performed on-site means work performed within the boundaries of a DOE-owned or -leased facility. However, work will not be considered to be performed ''on-site'' when pursuant to the contract it is the only work performed within the boundaries of a DOE-owned or -leased facility, and it is ancillary to the primary purpose of the contract (*e.g.*, on-site delivery of goods produced off-site).

Subpart B—Procedures

§708.5 Prohibition against reprisals.

(a) A DOE contractor covered by this part may not discharge or in any manner demote, reduce in pay, coerce, restrain, threaten, intimidate, or otherwise discriminate against any employee because the employee (or any person acting pursuant to a request of the employee) has—

(1) Disclosed to an official of DOE, to a member of Congress, or to the contractor (including any higher tier contractor), information that the employee in good faith believes evidences—

(i) A violation of any law, rule, or regulation;

(ii) A substantial and specific danger to employees or public health or safety; or

(iii) Fraud, mismanagement, gross waste of funds, or abuse of authority;

(2) Participated in a Congressional proceeding or in a proceeding conducted pursuant to this part; or

(3) Refused to participate in an activity, policy, or practice when—

(i) Such participation—

(A) Constitutes a violation of a Federal health or safety law; or

(B) Causes the employee to have a reasonable apprehension of serious injury to the employee, other employees, or the public due to such participation, and the activity, policy, or practice causing the employee's apprehension of such injury—

(*1*) Is of such a nature that a reasonable person, under the circumstances then confronting the employee, would conclude there is a *bona fide* danger of an accident, injury, or serious impairment of health or safety resulting from participation in the activity, policy, or practice; and

(*2*) The employee is not required to participate in such dangerous activity, policy, or practice because of the nature of his or her employment responsibilities;

(ii) The employee, before refusing to participate in an activity, policy, or practice has sought from the contractor and has been unable to obtain a correction of the violation or dangerous activity, policy, or practice; and

(iii) The employee, within 30 days following such refusal, discloses to an official of DOE, a member of Congress, or the contractor, information regarding the violation or dangerous activity, policy, or practice, and explaining why he has refused to participate in the activity.

(b) An employee disclosure, participation, or refusal described in §708.5(a)(1), (2), or (3) shall be subject to this part only if it relates to activities alleged to have occurred under work performed by the contractor for DOE. This part is not intended to override any other provision or requirement of any regulation pertaining to Restricted Data, national security information, or any other classified or sensitive information, and the protections of this part shall not apply to any person who, in the course of making a disclosure described in §708.5(a)(1) or (3), or in the course of participating in a proceeding described in §708.5(a)(2), improperly discloses Restricted Data, national security information, or any other classified or sensitive information in violation of any Executive Order, statute, or regulation.

§ 708.6 Filing a complaint.

(a) An employee who believes that he or she has been discriminated against in violation of this part, and who has not, with respect to the same facts, pursued a remedy available under State or other applicable law, may file a complaint with DOE through the Head of Field Element at the field organization. For purposes of this part, a complaint shall be deemed to have been pursued under State or other applicable law if the employee has, pursuant to proceedings established or mandated by State or other applicable law, at any time prior to, or concurrently with, the filing of a complaint with DOE, or at any time during the processing of a complaint filed with DOE, filed or submitted any complaint, action, grievance, or other pleading with respect to that same matter. The pursuit of a remedy under a negotiated collective bargaining agreement will be considered the pursuit of a remedy through internal company grievance procedures and not the pursuit of a remedy under State or other applicable law. The limitations period specified in § 708.6(d) shall be suspended upon the filing of a complaint pursuant to State or other applicable law, and the mere filing of a complaint pursuant to State or other applicable law shall not bar the employee from re-instituting or filing a complaint with DOE if the matter cannot be resolved under State or other applicable law due to a lack of jurisdiction.

(b) The Head of Field Element may designate an individual to serve as point of contact for processing the complaint and for undertaking the responsibilities under § 708.7.

(c) A complaint filed under paragraph (a) of this section need not be in any specific form provided it is signed by the complainant and contains the following: A statement setting forth specifically the nature of the alleged discriminatory act, and the disclosure, participation or refusal giving rise to such act; a statement that the complainant has not, as described in paragraph (a) of this section, pursued a remedy available under State or other applicable law; and an affirmation that all facts contained in the complaint are true and correct to the best of the complainant's knowledge and belief. Additionally, the complaint must contain a statement affirming that:

(1) All attempts at resolution through an internal company grievance procedure have been exhausted;

(2) The company grievance procedure is ineffectual or exposes the complainant to employer reprisals; or

(3) The company has no such procedure.

The complaint must state the factual basis for such affirmation; and, if applicable, the date on which internal company grievance procedures were terminated and the reasons for termination.

(d) A complaint filed pursuant to paragraph (a) of this section must be filed within 60 days after the alleged discriminatory act occurred or within 60 days after the complainant knew, or reasonably should have known, of the alleged discriminatory act, whichever is later. In cases where the employee has attempted resolution through internal company grievance procedures as set forth in paragraph (c) of this section, the 60-day period for filing a complaint shall be tolled during such resolution period and shall not again begin to run until the day following termination of such dispute-resolution efforts.

(e) Within 15 days of receipt of a complaint filed pursuant to paragraph (a) of this section, the Head of Field Element or designee shall notify:

(1) The contractor, person, or persons named in the complaint, and

(2) The Director, of the filing of the complaint.

A copy of the complaint shall be forwarded to the Director.

(f) Any person or party responsible for the conduct of any investigation or proceeding pursuant to this part shall ensure that appropriate safeguards are implemented to accommodate circumstances involving Restricted Data, national security information, or any other classified or sensitive information protected by Executive Order, statute, or regulation.

§ 708.7 Attempt at informal resolution.

(a) The Head of Field Element or designee shall have 30 days from the date of receipt of a complaint in which to attempt an informal resolution of the

complaint, prior to the initiation of a formal investigation. To this end, the Head of Field Element or designee may attempt to resolve the complaint through consultation and negotiation with the parties involved. If the Head of Field Element or designee has cause to believe the complaint might not meet the requirements of this part, within 5 days from the date of receipt of the complaint, the Head of Field Element or designee shall forward the complaint to the Director, without comment and without notice to any party, for a determination of whether attempts at informal resolution should be continued or the complaint should be dismissed summarily under any of the criteria set forth in §708.8. If the Director determines to dismiss the complaint summarily, the complaint shall be dismissed and the parties notified pursuant to the procedures set forth in §708.8. If the Director determines not to dismiss the complaint summarily, he shall, within 15 days from the date he received it, so advise the Head of Field Element or designee and return the complaint to the Head of Field Element or designee, who shall thereupon have 30 days to attempt informal resolution of the complaint.

(b) If informal resolution is reached, the Head of Field Element or designee shall enter into a settlement agreement which terminates the complaint. The terms of such agreement shall be reduced to writing and made part of the complaint file, with a copy provided to all parties. Any such agreement shall be binding on the parties.

(c) If informal resolution cannot be reached, the Head of Field Element or designee shall immediately notify the Director and provide the file to the Director with a brief summary of the attempts at resolution.

§708.8 Acceptance of complaint and investigation.

(a) Unless the Director determines that:

(1) The complaint has been settled under §708.7,

(2) The complaint is untimely,

(3) The complaint or disclosure is frivolous or on its face without merit,

(4) The complainant has pursued a remedy available under State or other applicable law, or

(5) The complaint, for other good cause shown, should not be processed under this part, the Director, within 5 days of receipt of the file from the Head of Field Element or designee, shall notify the parties in writing that an investigation will be conducted under §708.8 and of their right to a subsequent hearing under §708.9.

Within 15 days of receipt of the file from the Head of Field Element or designee, the Director shall appoint an investigator and order an investigation of the complaint. If the Director declines to process a complaint for investigation, the Director shall notify the Secretary or designee within 15 days of receipt of the file from the Head of Field Element or designee. The notification shall be in writing and shall set forth the specific reasons for such refusal. A copy of such notice shall be sent to the Head of Field Element and shall be delivered by certified mail to the complainant and the contractor.

(b) If based upon information acquired during investigation of a complaint, the Director determines the existence of grounds for dismissal of the complaint, as set forth in §708.8(a), the Director, within 15 days of receipt of the file from the investigator, shall dismiss the complaint and notify the Secretary or designee. The notification shall be in writing and shall set forth the specific reasons for such dismissal. A copy of such notice shall be sent to the Head of Field Element, and shall be delivered by certified mail to the complainant and the contractor.

(c) If the Director dismisses a complaint pursuant to paragraph (a) or (b) of this section, the administrative process is terminated unless within 5 calendar days of receipt of the notice required under paragraph (a) or (b) of this section, the complainant files a written request with the Director for review by the Secretary or designee. Copies of any request for review shall be served by the complainant on all parties by certified mail, and the Director shall promptly send a copy to the Secretary. If the Secretary or designee determines that the complaint

should be considered further, the Secretary or designee shall order the Director to reinstate the complaint and resume the administrative process. If, pursuant to either paragraph (a) or (b) of this section, a complaint has been dismissed because the complainant has pursued a remedy available under State or other applicable law, the complaint, upon written request by the complainant, will be subject to automatic reinstatement if the matter cannot be resolved under State or other applicable law due to a lack of jurisdiction.

(d) In conducting an investigation under this part, the investigator, for the purpose of determining whether a violation of §708.5 has occurred, may enter and inspect places and records (and make copies thereof), may question persons alleged to have been involved in discriminatory acts and other employees of the charged contractor, and may require the production of any documentary or other evidence deemed necessary. The contractor shall cooperate fully with the investigator in making available employees and all pertinent evidence, including records.

(e) To the extent practicable, investigations under this part shall be conducted in a manner that protects the confidentiality of any person (other than the complainant) who requests leave to provide information on a confidential basis. Confidentiality shall not be extended to any persons who in the course of their employment, or due to the nature of their position, are required to provide such information, and all grants of confidentiality shall be subject to waiver by the Hearing Officer if the Hearing Officer determines that waiver is necessary to achieve a fair adjudication of the case. The investigator shall advise all persons to whom confidentiality is granted that such grant of confidentiality is conditional, not absolute.

(f) The investigator, within 60 days of appointment, shall submit a Report of Investigation to the Director. The Report of Investigation shall become a part of the record and shall state specifically a finding, and the factual basis for such finding, with respect to each alleged discriminatory act. Within 10 days of receipt of the Report of Investigation, the Director shall serve it on the parties involved by certified mail.

§708.9 Hearing.

(a) Unless a complaint has been dismissed pursuant to §708.8, within 15 days of receipt of the Report of Investigation, a party may, in writing, request a hearing on the complaint. Upon the request of one of the parties for a hearing, the Director shall transmit the complaint file to the Office of Hearings and Appeals.

(b) Upon receipt of the complaint file from the Director, the Director, Office of Hearings and Appeals shall appoint, as soon as practicable, a Hearing Officer to conduct a hearing and shall transmit to the Hearing Officer a copy of the file, including the Report of Investigation. The Hearing Office shall, within seven days following receipt of the complaint file, notify the parties of a day, time, and place for the hearing. Hearings will normally be held at or near the appropriate DOE field organization, within 60 days from the date the complaint file is received by the Hearing Officer unless the Hearing Officer determines that another location would be more appropriate, or unless the complaint is earlier settled by the parties.

(c) In all proceedings under this part, the parties shall have the right to be represented by a person of their own choosing. Formal rules of evidence shall not apply, but shall be used as a guide for application of procedures and principles designed to assure production of the most probative evidence available. The Hearing Officer may exclude evidence which is immaterial, irrelevant, or unduly repetitious. The Hearing Officer is specifically prohibited from initiating or otherwise engaging in *ex parte* discussions on a complaint matter at any time during the pendency of the complaint proceeding under this part.

(d) The complainant shall have the burden of establishing by a preponderance of the evidence that there was a disclosure, participation, or refusal described under §708.5, and that such act was a contributing factor in a personnel action taken or intended to be taken against the complainant. Once

the complainant has met this burden, the burden shall shift to the contractor to prove by clear and convincing evidence that it would have taken the same personnel action absent the complainant's disclosure, participation, or refusal.

(e) Testimony of witnesses shall be given under oath or affirmation, and the witnesses shall be subject to cross-examination. Witnesses shall be advised of the applicability of 18 U.S.C. 1001 and 1621, dealing with the criminal penalties associated with false statements and perjury.

(f) At his or her discretion, the Hearing Officer may arrange for the issuance of subpoenas for witnesses to attend the Hearing on behalf of either party, or for the production of specific documents or other physical evidence, provided a showing of the necessity for such witness or evidence has been made to the satisfaction of the Hearing Officer.

(g) All hearings shall be mechanically or stenographically reported. All evidence upon which the Hearing Officer relies for the recommended decision under § 708.10(b) shall be contained in the transcript of testimony, either directly or by appropriate reference. All exhibits and other pertinent documents or records, either in whole or in material part, introduced as evidence, shall be marked for identification and incorporated into the record.

(h) Any party, upon request, may be allowed a reasonable time to file with the Hearing Officer a brief or statement of fact or law. A copy of any such brief or statement shall be filed with the Hearing Officer before or during the proceeding and shall be served by the submitting party upon each other party by certified mail. The parties may make oral closing arguments, but post-hearing briefs will only be permitted at the direction of the Hearing Officer. When permitted, any such brief shall be limited to the issue or issues specified by the Hearing Officer and shall be due within the time prescribed by the Hearing Officer.

(i) At the request of any party, the Hearing Officer may, at his or her discretion, extend the time for any hearing held pursuant to this § 708.9. Additionally, the Hearing Officer may, at the request of any party, or on his or her own motion, dismiss a claim, defense, or party and make adverse findings—

(1) Upon the failure without good cause of any party or his or her representative to attend a hearing; or

(2) Upon the failure of any party to comply with a lawful order of the Hearing Officer.

(j) In any case where a dismissal of a claim, defense, or party is sought, the Hearing Officer shall issue an order to show cause why the dismissal should not be granted and afford all parties a reasonable time to respond to such order. After the time for response has expired, the Hearing Officer shall take such action as is appropriate to rule on the dismissal, which may include an order dismissing the claim, defense, or party. An order dismissing a claim, defense, or party may be appealed to the Director for reconsideration.

§ 708.10 Initial agency decision.

(a) If a hearing is not requested, the Director, within 30 days of expiration of the time set forth in § 708.9(a) for request of a hearing, shall issue an initial agency decision based upon the record, which decision shall be served upon the parties by certified mail. The initial agency decision shall contain appropriate findings, conclusions, and an order, and shall set forth the factual basis for each and every finding with respect to each alleged discriminatory act. In making such findings, the Director may rely upon, but shall not be bound by, the findings contained in the Report of Investigation.

(b) If a hearing has been held, the Hearing Officer shall issue an initial agency decision within 30 days after the receipt of the transcript from the proceeding at which evidence was submitted or within 30 days after receipt of any post-hearing briefs permitted under § 708.9(h), whichever is later. The initial agency decision shall contain appropriate findings, conclusions, and an order, and shall set forth the factual basis for each and every finding with respect to each alleged discriminatory act. In making such findings, the Hearing Officer may rely upon, but shall not be bound by, the findings contained in the Report of Investigation. The

Hearing Officer shall send the initial agency decision, together with the entire record, to the Director who shall promptly serve the initial agency decision upon all parties to the proceeding by certified mail.

(c) The initial agency decision may include an award of reinstatement, transfer preference, back pay, and reimbursement to the complainant up to the aggregate amount of all reasonable costs and expenses (including attorney and expert-witness fees) reasonably incurred by the complainant in bringing the complaint upon which the decision was issued.

(1) If the initial agency decision contains a determination that the complaint is without merit, it shall also include a notice stating that the decision shall become the final decision of DOE denying the complaint unless, within five calendar days of its receipt, a written request is filed with the Director for review by the Secretary or designee. Copies of any request for review shall be served by the requesting party upon all parties by certified mail.

(2) If the initial agency decision contains a determination that a violation of §708.5 has occurred, it shall also include an appropriate order to the contractor to abate the violation and to provide the complainant with relief, as well as notice to the parties that the decision shall become the final decision of DOE unless, within five calendar days of its receipt, a written request is filed with the Director for review by the Secretary or designee. Copies of any request for review shall be served by the requesting party upon all parties by certified mail.

(3) Notwithstanding the provisions of paragraph (c)(2) of this section, if the agency decision contains a determination that a violation of §708.5 has occurred, it may contain an order requiring the contractor to provide the complainant with interim relief, including but not limited to reinstatement, pending the outcome of any request for review. This paragraph shall not be construed to require the payment of any award of back pay or attorney fees before the DOE decision is final.

§708.11 Final decision and order.

(a) Upon receipt of a request for review of an initial agency decision by the Secretary or designee, the Director shall forward the request, along with the entire record, to the Secretary or designee.

(b) Within 60 days after the Director receives a request for Secretarial review of an initial agency decision, the Secretary or designee shall either direct further processing of the complaint or pursuant to paragraph (c) or (d) of this section, issue a final decision, based on the record, including the Report of Investigation. The final decision shall be forwarded by the Secretary or designee to the Director who shall serve it upon all parties by certified mail.

(1) If the Secretary or designee determines that further processing of the complaint is necessary, the Secretary or designee will return the case to the Director, who will forward it with specific instructions to the Office of Hearings and Appeals and/or the investigator as appropriate.

(2) Except to the extent prohibited by law, regulation, or Executive Order, all parties will be provided copies of any information compiled as a result of actions taken under paragraph (b)(1) of this section.

(c) If the Secretary or designee determines that a violation of §708.5 has occurred, the Secretary or designee shall issue a final decision and shall instruct the Director to take appropriate action to implement that decision. Relief ordered by the Secretary or designee may include reinstatement, transfer preference, back pay, and reimbursement to the complainant up to the aggregate amount of all reasonable costs and expenses (including attorney and expert-witness fees) reasonably incurred by the complainant in bringing the complaint upon which the decision was issued or such other relief as is necessary to abate the violation and provide the complainant with relief.

(d) If the Secretary or designee determines that the party charged has not committed a discriminatory act in violation of §708.5, the Secretary or designee shall so notify the Director and issue a final decision dismissing the complaint. If the Secretary or designee

determines that there has been no discrimination, the complainant shall not receive reimbursement for the costs and expenses provided in paragraph (c) of this section.

§ 708.12 Implementation of decision.

(a) Upon receipt of the final decision of the Secretary or designee under § 708.11, or if the initial agency decision becomes the final decision pursuant to § 708.10(c) (1) or (2), the Director shall serve the final decision upon all parties by certified mail, and upon the Head of Field Element at the affected DOE field organization. The Head of Field Element shall take all necessary steps to implement the final decision.

(b) For purposes of sections 6 and 7 of the Contract Disputes Act (41 U.S.C. 605 and 606), a decision implemented by the Head of Field Element pursuant to this part shall not be considered a ''claim by the government against a contractor'' or ''a decision by the contracting officer.'' However, a contractor's disagreement, and refusal to comply, with a final decision under this part could result in the contracting officer's decision to disallow certain costs or terminate the contract for default. In such case, the contractor could file a claim under the disputes procedures of the contract.

§ 708.13 Communication of program to contractor employees.

(a) All contractors covered by this part shall inform their employees of the applicability of the DOE Contractor Employee Protection Program, including identification of the DOE offices to which a protected disclosure can be made and identification of appropriate points of contact for initiating employment-reprisal complaints.

(b) The information required in paragraph (a) of this section shall be prominently posted in conspicuous places at the contractor worksite, in all places where notices are customarily posted. Such notices shall not be altered, defaced, or covered by other material.

§ 708.14 Alternative means of resolution.

Notwithstanding the provisions of this part, the Secretary retains the right to request that complaints filed pursuant to this part be accepted by other Federal agencies for investigation and factual determinations, when the Secretary deems such referral to be in the public interest.

§ 708.15 Time frames.

The time frames set forth in this part may be extended with the approval of the Secretary or designee.

PART 710—CRITERIA AND PROCEDURES FOR DETERMINING ELIGIBILITY FOR ACCESS TO CLASSIFIED MATTER OR SPECIAL NUCLEAR MATERIAL

Subpart A—General Criteria and Procedures for Determining Eligibility for Access to Classified Matter or Special Nuclear Material

GENERAL PROVISIONS

CRITERIA AND PROCEDURES FOR DETERMINING ELIGIBILITY FOR ACCESS TO CLASSIFIED MATTER OR SPECIAL NUCLEAR MATERIAL

ADMINISTRATIVE REVIEW

MISCELLANEOUS

970.5223-1 -- Integration of environment, safety, and health into work planning and execution.

As prescribed in 48 CFR 970.2303-2(a), insert the following clause:

Integration of Environment, Safety, and Health Into Work Planning and Execution (DEC 2000)

(a) For the purposes of this clause,

(1) Safety encompasses environment, safety and health, including pollution prevention and waste minimization; and

(2) Employees include subcontractor employees.

(b) In performing work under this contract, the contractor shall perform work safely, in a manner that ensures adequate protection for employees, the public, and the environment, and shall be accountable for the safe performance of work. The contractor shall exercise a degree of care commensurate with the work and the associated hazards. The contractor shall ensure that management of environment, safety and health (ES&H) functions and activities becomes an integral but visible part of the contractor's work planning and execution processes. The contractor shall, in the performance of work, ensure that:

(1) Line management is responsible for the protection of employees, the public, and the environment. Line management includes those contractor and subcontractor employees managing or supervising employees performing work.

(2) Clear and unambiguous lines of authority and responsibility for ensuring (ES&H) are established and maintained at all organizational levels.

(3) Personnel possess the experience, knowledge, skills, and abilities that are necessary to discharge their responsibilities.

(4) Resources are effectively allocated to address ES&H, programmatic, and operational considerations. Protecting employees, the public, and the environment is a priority whenever activities are planned and performed.

(5) Before work is performed, the associated hazards are evaluated and an agreed-upon set of ES&H standards and requirements are established which, if properly implemented, provide adequate assurance that employees, the public, and the environment are protected from adverse consequences.

(6) Administrative and engineering controls to prevent and mitigate hazards are tailored to the work being performed and associated hazards. Emphasis should be on designing the work and/or controls to reduce or eliminate the hazards and to prevent accidents and unplanned releases and exposures.

(7) The conditions and requirements to be satisfied for operations to be initiated and conducted are established and agreed-upon by DOE and the contractor. These agreed-upon conditions and requirements are requirements of the contract and binding upon the contractor. The extent of documentation and level of authority for agreement shall be tailored to the complexity and hazards associated with the work and shall be established in a Safety Management System.

(c) The contractor shall manage and perform work in accordance with a documented Safety Management System (System) that fulfills all conditions in paragraph (b) of this clause at a minimum. Documentation of the System shall describe how the contractor will:

(1) Define the scope of work;

(2) Identify and analyze hazards associated with the work;

(3) Develop and implement hazard controls;

(4) Perform work within controls; and

(5) Provide feedback on adequacy of controls and continue to improve safety management.

(d) The System shall describe how the contractor will establish, document, and implement safety performance objectives, performance measures, and commitments in response to DOE program and budget execution guidance while maintaining the integrity of the System. The System shall also describe how the contractor will measure system effectiveness.

(e) The contractor shall submit to the contracting officer documentation of its System for review and approval. Dates for submittal, discussions, and revisions to the System will be established by the contracting officer. Guidance on the preparation, content, review, and approval of the System will be provided by the contracting officer. On an annual basis, the contractor shall review and update, for DOE approval, its safety performance objectives, performance measures, and commitments consistent with and in response to DOE's program and budget execution guidance and direction. Resources shall be identified and allocated to meet the safety objectives and performance commitments as well as maintain the integrity of the entire System. Accordingly, the System shall be integrated with the contractor's business processes for work planning, budgeting, authorization, execution, and change control.

(f) The contractor shall comply with, and assist the Department of Energy in complying with, ES&H requirements of all applicable laws and regulations, and applicable directives identified in the clause of this contract entitled "Laws, Regulations, and DOE Directives." The contractor shall cooperate with Federal and non-Federal agencies having jurisdiction over ES&H matters under this contract.

(g) The contractor shall promptly evaluate and resolve any noncompliance with applicable ES&H requirements and the System. If the contractor fails to provide resolution or if, at any time, the contractor's acts or failure to act causes substantial harm or an imminent danger to the environment or health and safety of employees or the public, the contracting officer may issue an order stopping work in whole or in part. Any stop work order issued by a contracting officer under this clause (or issued by the contractor to a subcontractor in accordance with paragraph (i) of this clause) shall be without prejudice to any other legal or contractual rights of the Government. In the event that the contracting officer issues a stop work order, an order authorizing the resumption of the work may be issued at the discretion of the contracting officer. The contractor shall not be entitled to an extension of time or additional fee or damages by reason of, or in connection with, any work stoppage ordered in accordance with this clause.

(h) Regardless of the performer of the work, the contractor is responsible for compliance with the ES&H requirements applicable to this contract. The contractor is responsible for flowing down the ES&H requirements applicable to this contract to subcontracts at any tier to the extent necessary to ensure the contractor's compliance with the requirements.

(i) The contractor shall include a clause substantially the same as this clause in subcontracts involving complex or hazardous work on site at a DOE-owned or-leased facility. Such subcontracts shall provide for the right to stop work under the conditions described in paragraph (g) of this clause. Depending on the complexity and hazards associated with the work, the contractor may choose not to require the subcontractor to submit a Safety Management System for the contractor's review and approval.

(End of Clause)

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Whistleblower Protection

EPA OIG Hotline for reporting Fraud, Waste, and Abuse in U.S. EPA Programs

The Whistleblower Protection Act (WPA) protects federal employees from retaliation for whistleblowing activities. Six environmental statutes provide protection for both federal and non-federal employees.

Whistleblower Protection Act

The Whistleblower Protection Act (WPA) provides protection rights for **federal employees** against retaliation for whistleblowing activities. Under WPA, federal employees may seek whistleblower protection from the Office of Special Counsel (OSC) EXIT disclaimer and the **Merit Systems Protection Board (MSPB)**. OSC is an independent executive agency whose responsibilities include investigating whistleblower's complaints and litigating cases before the MSPB. MSPB has the authority to enforce its decision and to order corrective and disciplinary actions. Actions ordered can include job restoration, reversal of suspensions, disciplinary action against a supervisor, and reimbursement of attorney fees, medical and other costs, and damages.

Protection Under Environmental Statutes

Whistleblower protection provisions are written into six environmental statutes:

- Clean Water Act (CWA)
- Clean Air Act (CAA)
- Safe Drinking Water Act (SDWA)
- Toxic Substances Control Act (TSCA)
- Solid Waste Disposal Act (SWDA)
- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

Employees, **both federal and non-federal**, who experience retaliation for whistleblower activities related to these six environmental statutes, can file a complaint with the Department of Labor's (DOL) Occupational Safety and Health Administration (OSHA). If DOL determines that retaliation has occurred, DOL may order corrective actions. DOL may instruct the employer to provide appropriate relief, which may include restoration of back pay, employment status and benefits, or compensatory damages. **DOL requires that complaints be filed within 30 days.** Additional information can be obtained from DOL's Whistleblower Protection EXIT disclaimer web page or your local OSHA Office. EXIT disclaimer

Attachment 5 (6 pages) of Form 921

U.S. Environmental Protection Agency

Office of the Inspector General

About the OIG Hotline

EPA OIG Hotline for Reporting Fraud, Waste, and Abuse in U.S. EPA Programs

The purpose of the hotline is to receive complaints of fraud, waste, and abuse in U.S. EPA programs and operations including mismanagement or violations of law, rules, or regulations by EPA employees or program participants. Complaints may be received directly from EPA employees, participants in U.S. EPA programs, or the general public.

The OIG hotline is staffed by the Headquarters Audit Division in Washington, D.C. The hotline staff can be reached by U.S. mail, telephone, fax, e-mail, and in person. Hotline complaints are reviewed by a team of auditors, evaluators, and criminal investigators as conditions warrant.

Upon receipt of a specific allegation of fraud, waste, abuse, or mismanagement, the OIG may take any one of the following actions: open an investigation or audit; refer the matter to EPA management for appropriate review and action; or refer the allegation to another Federal agency, including the Federal Bureau of Investigation. All matters significant enough to require a response are monitored until the necessary resolution action is planned or taken. Allegations with limited specificity or merit may be held in abeyance until further specific details are reported. Complaints are analyzed to identify trends which should be considered in the audit and investigative planning processes.

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What to Report

EPA OIG Hotline for reporting Fraud, Waste, and Abuse in U.S. EPA Programs

The purpose of this Hotline is to receive complaints of fraud, waste, and abuse in U.S. EPA programs and operations including mismanagement or violations of law, rules, or regulations by EPA employees or program participants. Examples of reportable violations include:

- Contract, procurement, and grant fraud, such as, cost/labor mischarging and bid rigging
- Bribery and acceptance of gratuities
- Significant mismanagement and waste of funds
- Conflicts of interest
- Travel fraud
- Abuse of authority
- Theft and abuse of Government property
- Computer crimes

Please be as specific as possible with your complaint. Your complaint should provide relevant names, dates and times, locations and where appropriate include the name of the contractor or grantee, contract and grant numbers, and award dates. Other helpful information includes:

- How you became aware of the problem
- Have efforts been made to correct the problem
- Names of others affected by the problem
- Relevant statute or regulation violated
- What you want EPA to do

Minor incidents of the above offenses, such as, minor time and attendance abuse, or misuse of government property should be reported to appropriate program managers. Personnel matters involving requests for individual relief should be handled through the appropriate grievance process with management, personnel, and offices of equal employment and civil rights. For other questions and concerns not involving fraud, waste, and abuse in U.S. EPA programs, please see Helpful Links.

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Who Can Report

EPA OIG Hotline for reporting Fraud, Waste, and Abuse in U.S. EPA Programs

All EPA and contract employees have a responsibility to assist in combating fraud, waste, and abuse in all agency programs. As such, you are encouraged to report matters involving fraud, waste, and mismanagement in any agency program to the OIG. The OIG also encourages the general public to contact the Hotline to report fraud, waste, and abuse in U.S. EPA programs.

Last updated on Thursday, January 23rd, 2003
URL: http://www.epa.gov/oig/hotline/whorpts.htm

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OIG Hotline - Contacts

EPA OIG Hotline for reporting Fraud, Waste, and Abuse in U.S. EPA Programs

To determine whether your information is appropriate for the U.S. EPA OIG Hotline, please refer to What to Report prior to initiating contact.

Contact by Mail

U.S. Environmental Protection Agency
Office of Inspector General Hotline (2443)
1200 Pennsylvania Avenue, NW
Washington, DC 20460.

Telephone and Fax

Toll-Free: 1-888-546-8740 (Nationwide)
Local: 202-260-4977 (DC Vicinity)
Fax: 202-401-1895

E-mail

Hotline E-mail

In person

Call OIG hotline [202-260-4977 (DC Vicinity) or 888-546-8740 (Nationwide)] and make arrangements to meet with a member of the hotline team.

Last updated on Thursday, January 23rd, 2003
URL: http://www.epa.gov/oig/org_contacts/contact.htm

Attachment 5 (6 pages) of Form 921

U.S. Environmental Protection Agency

Office of the Inspector General

OIG Home
The Role of OIG
Our Strategic Goals
Our Organization Contacts
Recruitment Opportunities
Freedom of Information Act
Other Resources
Send us Feedback

Confidentiality

EPA OIG Hotline for reporting Fraud, Waste, and Abuse in U.S. EPA Programs

The IG Act and other pertinent laws provide for the protection of persons making Hotline complaints.

Complaints Made by EPA Employees

In accordance with section 7(b) of the Inspector General Act of 1978, as amended, the OIG shall not, after receipt of a complaint or information from an EPA employee, disclose the identity of the employee without the consent of the employee unless the Inspector General determines such disclosure is unavoidable during the course of an investigation. Any identifying information is confidential source material, and OIG employees must not disclose such information except to other OIG employees who have a need to know in connection with their official duties.

Complaints Made by Other Persons

Complainants who are not EPA employees do not have an automatic right to confidentiality under section 7(b) of the Inspector General Act of 1978. However, non-EPA employees may specifically request confidentiality, and the OIG will protect the confidentiality of such complainants to the maximum extent permitted by law (for example, by using applicable exemptions and exclusions of the Freedom of Information Act and applicable exemptions of the Privacy Act).

Last updated on Thursday, January 23rd, 2003
URL: http://www.epa.gov/oig/hotline/confide.htm

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Anonymity

EPA OIG Hotline for Reporting Fraud, Waste, and Abuse in U.S. EPA Programs

If you do not wish to disclose your identity, you may remain anonymous when contacting the OIG. However, please keep in mind that anonymity may impede a quick or thorough investigation or the success of a later prosecution.

Attachment 5 (6 pages) of Form 921

Appendix B

APPENDIX B

REFERENCES

American Association for Laboratory Accreditation April 1996. General Requirements for Accreditation.

American Chemical Society Committee on Environmental Improvement and Subcommittee on Environmental Analytical Chemistry. 1980. Guidelines for Data Acquisition and Data Quality Evaluation in Environmental Chemistry. Analytical Chemistry. 52:14. December.

American Public Health Association, American Water Works Association, and Water Environment Federation. 1985. *Standard Methods for the Examination of Water and Wastewater.* 16th Edition.

American Society of Heating, Refrigerating and Air Conditioning Engineers, Inc. 1995. *Method of Testing Performance of Laboratory Fume Hoods.* ANSI/ ASHRAE standard 110-1995.

American Society for Quality. 1994. *Specifications and Guidelines for Quality Systems for Environmental Data Collection and Technology Programs.* ANSI/ASQC E4-1994.

American Society for Testing and Materials. 1997. *Standard Test Method for Trace Uranium in Water by Pulsed-Laser Phosphorimetry.* ASTM D5174-97.

ANSI. 1991. *Measurement Quality Assurance for Radioassay Laboratories.* ANSI N42.2. Draft.

ANSI. 1991 *Style Manual for Preparation of Proposed American National Standards.* Eighth Edition, March.

ANSI. 1994. *Calibration and Usage of Thallium-Activated Sodium-Iodide Detector Systems for Assay of Radioniclides.* ANSI N42.12-1994.

ANSI. 1996. *American National Standard and Measurement and Associated Instrumentation Quality Assurance for Radioassay Laboratories.* ANSI N42.23-1996.

ANSI. 1997. *American National Standard and Measurement and Usage of Alpha/Beta Proportional Counters.* ANSI N42.25-1997.

ANSI. 1999. *American National Standard and Measurement and Use of Germanium Spectrometers for the Measurement of Gamma-Ray Emission Rates of Radionuclides.* ANSI N42.14-1999.

ANSI/American Industrial Hygiene Association. 1992. *Standard for Laboratory Ventilation.* Laboratory Fume Hood Section. ANSI/AIHA Z9.5-1992.

ANSI/American Society for Quality Control. 1994. *Specifications and Guidelines for Quality Systems for Environmental Data Collection and Environmental Technology Programs.* E4-1994.

APHA-AWWA-WPCF. 1998. *Standard Methods for the Examination of Water and Wastewater*, 20th Edition, 1998.

ASQC (American Society for Quality Control). 1996 *Definitions of Environmental Quality Assurance Terms*

ASTM. 1987. Annual Book of ASTM Standards, Section 4: *Construction, Volume 04.04: Soil and Rock; Building Stones.* American Society for Testing and Materials, 1987.

ASTM. 1987. Annual Book of ASTM Standards, Section 11: *Water and Environmental Technology, American Society for Testing and Materials.* 1987.

DOE-EM Consolidated Audit Program (EMCAP). 2002.

EPA. 1973. *Procedures for Radiochemical Analysis of Nuclear Reactor Aqueous Solutions.* R4-73-014. National Environmental Research Center. Cincinnati, Ohio.

EPA. 1975. Interim Radiochemical Methodology for Drinking Water. EPA-600/4-75-008.

EPA. 1976. *Interim Radiochemical Methodology for Drinking Water.* EPA-600/75-008. Environmental Monitoring and Support Laboratory, Radiochemistry and Nuclear Engineering Branch. Cincinnati, Ohio.

EPA. 1977. Handbook for Analytical Quality Control in Radioanalytical Laboratories. EPA-600/7-77-088.

EPA. 1979. *Radiochemical Analytical Procedures for Analysis of Environmental Samples.* EMSL-LV-0539-17. Office of Radiation and Indoor Air. Las Vegas, Nevada.

EPA. 1979. Handbook for Analytical Quality Control in Water Wastewater Laboratories. EPA-600/4-79-019.

EPA. 1980. Prescribed Procedures for Measurement of Radioactivity in Drinking Water. EPA-600/4-80-032.

EPA. 1980. *Prescribed Procedures for Measurement of Radioactivity in Drinking Water.* EPA-600/4-80-032. Environmental Monitoring and Support Laboratory, Office of Research and Development. Cincinnati, Ohio.

EPA. 1980. Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans. QAMS-005/80. December.

EPA. 1980. Upgrading Environmental Radiation Data. HPSR-1(1980), Chapter 6.

EPA. 1980. *Upgrading Environmental Radiation Data, Health Physics Society Committee Report* HPSR-1. EPA 520/1-80-012. Office of Radiation Programs, Washington, D.C.

EPA. 1983. Methods for Chemical Analysis of Waters and Wastes. EPA-600/4-79-020.

EPA. 1984. *Eastern Environmental Radiation Facility Radiochemistry Procedures Manual.* 520/5-84-006. Eastern Environmental Radiation Facility. Montgomery, Alabama.

EPA. 1996. *Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods.* SW-846. Third Edition, 1986, Update III, 1996.

EPA. 1988. Methods for the Determination of Organic Compounds in Drinking Water. EPA-600/4-88-039.

EPA. 1989. Methods for the Determination of Organic Compounds in Finished Drinking Water and Raw Source Water. USEPA Environmental Monitoring Systems Laboratory – Cincinnati, Ohio.

EPA. 1990. Quality Assurance/Quality Control Guidance for Removal Activities. EPA/540/G-90/004.

EPA. 1990. Methods for the Determination of Organic Compounds in Drinking Water. EPA-600/R-4-90-020. Supplement I.

EPA. 1991. Ecological Assessment of Hazardous Waste Sites. EPA/600/3-89/013. Office of Research and Development. Washington, D.C.

EPA. 1992. Methods for the Determination of Organic Compounds in Drinking Water. EPA-600/R-92-129. Supplement II.

EPA. 1993. Methods for the Determination of Inorganic Substances in Environmental Samples. EPA-600/R-93-100.

EPA. 1994. Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analysis. EPA/540/R-094/083. Office of Solid Waste and Emergency Response.

EPA. 1994. Laboratory Data Validation Functional Guidelines for Evaluating Organics Analysis. EPA/540/R-094/082. Office of Solid Waste and Emergency Response.

EPA. 1994. Methods for the Determination of Metals in Environmental Samples. EPA-600-R-94-111.

EPA. 1994. *Technical Notes on Drinking Water Methods.* EPA-600/R-94-173.

EPA. 1994. *Guidance on the Evaluation of Safe Drinking Water Act Compliance Monitoring Results from Performance Based Methods.* Second Draft. September 30.

EPA. 1995. 2185 – *Good Automated Laboratory Practices, Principles and Guidance to Regulations for Ensuring Data Integrity in Automated Laboratory Operations with Implementation Guidance, 1995 Edition. Office of Information Resources Management.* Research Triangle Park, North Carolina. August 10.

EPA. 1995. Quality Management Section (QAMS), *Glossary Quality Assurance Terms.* August 1992 and December 1995.

EPA. 1996. *Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater.* EPA-600.

EPA. 1996. *Performance Based Measurement System.* EPA EMMC Method Panel, PBMS Workgroup.

EPA. 1997. *Glossary of Terms and Related Acronyms.* Quality Assurance Division, National Center for Environmental Research and Quality Assurance, Office of Research and Development. December 10.

EPA. 1997. *Manual for the Certification of Laboratories Analyzing Drinking Water, Criteria and Procedures Quality Assurance, Fourth Edition.* EPA 815-B-97-001. Office of Ground Water and Drinking Water. Cincinnati, Ohio. March.

EPA. 1999. EPA Contract Laboratory Program, Statement of Work for Organics Analysis, Multi-media, Multi-concentration. OLM 04.2 May 1999.

EPA. 2001. EPA Contract Laboratory Program, Statement of Work for Inorganics Analysis, Multi-media, Multi-concentration. OLM05.2 December 2001.

EPA and the Department of the Army. 1991. *Evaluation of Dredged Material Proposed for Ocean Disposal, Testing Manual.* EPA/503/8-91/001. EPA, Office of Water, Washington, D.C., Department of the Army, U.S. Army Corps of Engineers, Washington, D.C., February.

EPA and the Department of the Army. 1998. *Evaluation of Dredged Material Proposed for Discharge in Waters of the U.S. - Testing Manual.* EPA/823/B-98/004. EPA, Office of Water, Office of Science and Technology, Washington, D.C., Department of the Army, U.S. Army Corps of Engineers, Operations, Construction, and Readiness Division, Washington, D.C., February.

Eurachem. 2000 Eurachem/CITAC Guide: *Quantifiying Uncertainty in Analytical Measurement,* second edition.

Health Physics Society. 1996 *Performance Criteria for Radiobioassay.* ANSI N13.30

Health Physics Society. 1996 *American National Standard Traceability of Radioactive Sources to NIST and Associated Instrument Quality Control.* ANSI N13.30. 1996.

IEEE. 1994. *American National Standard Calibration and Usage of Thallium – Activated Sodium Iodide Detector Systems for Assay of Radionuclides.* ANSI N42.12-1994.

IEEE. 1995. *American National Standard Traceability of Radioactive Sources to NIST and Associated Instrument Quality Control.* ANSI N42.22-1995.

IEEE. 1996. *American National Standard Measurement and Associated Instrumentation Quality Assurance for Radioassay Laboratories* ANSI N42.23-1996.

IEEE. 1997. *American National Standard Calibration and Usage of Alpha/Beta Proportional Counters.* ANSI N42.25-1997.

IEEE. 1997. *American National Standard Check Sources for and Verification of Liquid-Scintillation Counting Systems* ANSI N42.15-1997.

ISO. 1984. *International Vocabulary of Basic and General Terms in Metrology (VIM).* Issued by BIPM, IEC, IFCC, ISO, IUPAC, and OIML.

ISO. 1986. *Quality – Vocabulary.* ISO Guide 8402. Geneva, Switzerland.

ISO. 1993. *Statistics – Vocabulary and Symbols – Part 1: Probability and General Statistical Terms.* ISO Guide 3534-1. Geneva, Switzerland.

ISO. 1994. *Quality Management and Quality Assurance Standards – Guidelines for Selection and Use.* ISO Guide 9000. Geneva, Switzerland.

ISO. 1994. *Quality Systems – Model for Quality Assurance in Design / Development, Production, Installation and Servicing.* ISO Guide 9001. Geneva, Switzerland.

ISO. 1994. Statistics – *Quality Systems – Model for Quality Assurance in Production and Installation.* ISO Guide 9002. Geneva, Switzerland.

ISO. 1995. *Guide to the Expression of Uncertainty in Measurement.* Geneva, Switzerland.

ISO/IEC. 1986. *General Terms and Their Definitions Concerning Standardization and Related Activities.* ISO/IEC Guide 2.

ISO/IEC. 1990. *General Requirements for the Competence of Calibration and Testing Laboratories.* ISO/IEC Guide 25.

National Environmental Laboratory Accreditation Conference. 2001. *National Environmental Laboratory Accreditation Conference, Quality Systems.* Revision 15. May 25.

National Institute of Standards and Technology. 1994. *Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results.* NIST Technical Note 1297. Gaithersburg, Maryland.

Navy Installation Remediation Program. 1998. *Environmental Restoration Terms and Acronyms.* Environmental Quality Division, Virginia.

NIOSH. 1984. NIOSH Manual of Analytical Methods, Third Edition, 1984, U.S. Department of Health and Human Services, National Institute for Occupational Safety and Health.

New York State Department of Environmental Conservation. Analytical Services Protocol, September, 1989.

Office of the Federal Register. 2001. *Quality Assurance for Nuclear Facilities.* 10 CFR 830.10. January 1.

Office of the Federal Register. 2001. *Scope.* 10 CFR 830.120. January 1.

Office of the Federal Register. 2001. *Occupational Radiation Protection.* 10 CFR 835. January 1.

Office of the Federal Register. 2001. *Records Maintained on Individuals (Privacy Act).* 10 CFR 1008. January 1.

Office of the Federal Register. 2001. *Occupational Safety and Health Standards).* 29 CFR 1910. July 1.

Office of the Federal Register. 2001. *Guidelines Establishing Test Procedures for the Analysis of Pollutants.* 40 CFR 136, Appendix A. July 1.

Office of the Federal Register. 2001. *National Primary Drinking Water Regulations.* 40 CFR 141. July 1.

Office of the Federal Register. 2001. *Analytical Methods for Radioactivity.* 40 CFR 141.25. July 1.

Office of the Federal Register. 2001. *Monitoring Frequency for Radioactivity in Community Water Systems.* 40 CFR 141.26. July 1.

Office of the Federal Register. 2001. *National Primary Drinking Water Regulations Implementation.* 40 CFR 142. July 1.

Office of the Federal Register. 2001. *National Secondary Drinking Water Regulations.* 40 CFR 143. July 1.

Office of the Federal Register. 2001. *Public Health and Environmental Radiation Protection Standards for Yucca Mountain, Nevada.* 40 CFR 197. July 1.

Office of the Federal Register. 2001. *Identification and Listing of Hazardous Waste.* 40 CFR 261. July 1.

Office of the Federal Register. 2001. *Lead-based Paint Poisoning prevention in Certain Residential Structures.* 40 CFR 745. July 1.

Office of the Federal Register. 2001. *Asbestos.* 40 CFR 763. July 1.

Office of the Federal Register. 2001. *Good Laboratory Practice Standards.* 40 CFR 792. July 1.

Standard Methods for the Examination of Water and Wastewater, 20th Edition, 1998, APHA-AWWA-WPCF.

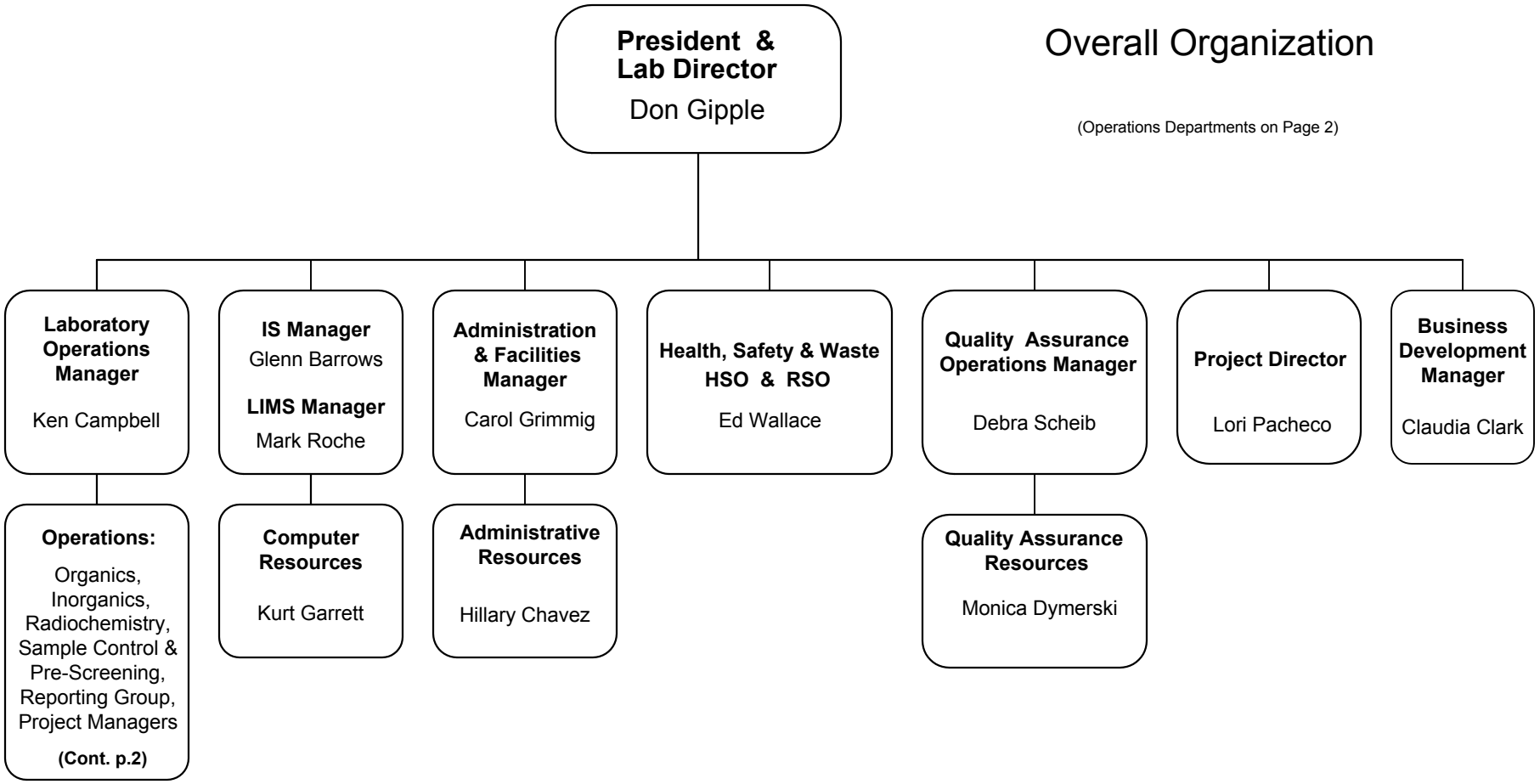
World Health Organization. 1983. *Laboratory Biosafety Manual.* Geneva, Switzerland.

Appendix C

Paragon Analytics, Inc.

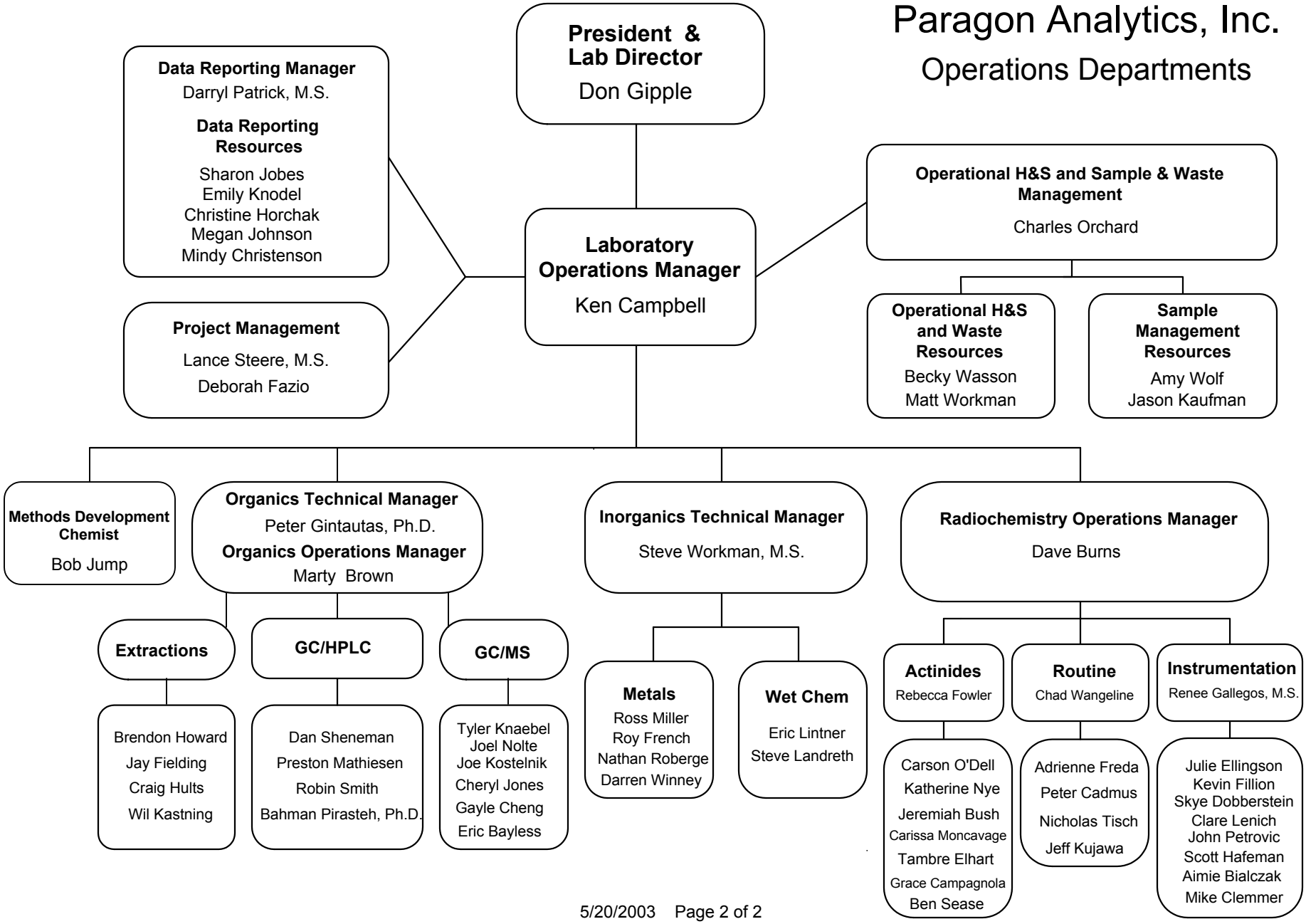
Overall Organization

(Operations Departments on Page 2)



Paragon Analytics, Inc.

Operations Departments



Appendix D

PARAGON ANALYTICS, INC.
AN EMPLOYEE OWNED SMALL BUSINESS

Note: Request 3X - 5X Minimum Quantities for Re-Runs & MS/ MSD

PARAMETER	MATRIX	METHOD	Minimum Quantity	Standard Quantity	Container Type	Preserv.	Req'd pH	Holding Time	Additional Sample Receiving Concerns
ORGANIC COMPOUNDS by GCMS (VOCs & SVOCs)									
VOCs w/ TICs	Water	8260B	1x	3x	40 mL VOA	HCl	</= 2	14 Days	Must Be Head Space Free
VOCs w/ TICs	Water	8260B	1x	3x	40 mL VOA	Cold		7 Days	Must Be Head Space Free
VOCs w/ TICs	Soil	8260B	5 g	4 oz.	Glass	Cold		14 Days	
VOCs w/ TICs	Soil	5035/8260B	1x	3x	Encore™	Cold		48 hrs/14 Days if froz	Store frozen. Additional volume needed for %
VOCs w/ TICs	Water	524.2	1x	3x	40 mL VOA	Cold/$Na_2S_2O_3$	</= 2	**24 Hours**	Must Be Head Space Free
	Water	524.2	1x	3x	40 mL VOA	HCL/$Na_2S_2O_3$	</= 2	14 Days	Must Be Head Space Free
VOCs w/ TICs	Water	624M	1x	3x	40 mL VOA	Cold/$Na_2S_2O_3$	</= 2	7 Days	Must Be Head Space Free
	Water	624M	1x	3x	40 mL VOA	HCL/$Na_2S_2O_3$	</= 2	14 Days	Must Be Head Space Free
SVOCs w/ TICs	Water	8270C	1liter	2 liters	Amber Glass	Cold		7 Days	Check Residual Chlorine at PM direction
SVOCs w/ TICs	Soil	8270C	30 g	4 oz.	Glass	Cold		14 Days	
FUELS									
BTEX only	Water	8021A	1x	3x	40 mL VOA	HCl	</= 2	14 Days	Must Be Head Space Free
BTEX only	Water	8021A	1x	3x	40 mL VOA	Cold		7 Days	Must Be Head Space Free
BTEX only	Soil	8021A	5 g	4 oz.	Glass	Cold		14 Days	
TVPH as Gasoline	Water	8015M	1x	3x	40 mL VOA	HCl	</= 2	14 Days	Must Be Head Space Free
TVPH as Gasoline	Water	8015M	1x	3x	40 mL VOA	Cold		7 Days	Must Be Head Space Free
TVPH as Gasoline	Soil	8015M	5g	4 oz.	Glass	Cold		14 Days	
TEPH as Diesel	Water	8015M	100 ml	2 x 500	Amber Glass	HCl	</= 2	14 Days	Check Residual Chlorine at PM direction
TEPH as Diesel	Water	8015M	100 ml	2 x 500	Amber Glass	Cold		7 Days	Check Residual Chlorine at PM direction
TEPH as Diesel	Soil	8015M	30 g	4 oz.	Glass	Cold		14 Days	
Oil and Grease	Water	9070	1 Liter	2 Liter	Amber Glass	HCl	</= 2	28 Days	
Oil and Grease	Solid	9071	50 g	4 oz.	Amber Glass	Cold		28 Days	
TRPH - Hexane Extractable	Water	1664	1 Liter	2x1 Liter	Amber Glass	HCl	</= 2	28 Days	
TRPH - Hexane Extractable	Solid	1664	10 g	4 oz.	Amber Glass	Cold		28 Days	
PESTICIDES/HERBICIDES/PCBs/MISCELLANEOUS ORGANIC COMPOUNDS									
Organochlorine Pest/PCBs	Water	8081A	1 Liter	2 Liter	Amber Glass	Cold		7 Days	Check Residual Chlorine at PM direction
Organochlorine Pest/PCBs	Water	608	1 Liter	2 Liter	Amber Glass	Cold/$Na_2S_2O_3$		7 Days	Check Residual Chlorine ALWAYS
Organochlorine Pest/PCBs	Soil	8081A	30 g	8 oz.	Glass	Cold		14 Days	
PCBs Only	Water	8081A or 8082	1 Liter	2 Liter	Amber Glass	Cold		7 Days	Check Residual Chlorine at PM direction
PCBs Only	Soil	8081A or 8082	30 g	8 oz.	Glass	Cold		14 Days	
PCBs Only	Oil	8081A or 8082	1 g	2 oz.	Glass	Cold		14 Days	
Organophosphorus Pesticides	Water	8141	1 Liter	2 Liter	Amber Glass	Cold		7 Days	Check Residual Chlorine at PM direction
Organophosphorus Pesticides	Soil	8141	30 g	8 oz.	Glass	Cold		14 Days	
Chlorinated Herbicides	Water	8151/1658	1 Liter	2 Liter	Amber Glass	Cold		7 Days	Check Residual Chlorine at PM direction
Chlorinated Herbicides	Soil	8151/1658	30 g	8 oz.	Glass	Cold		14 Days	
PNAs (a.k.a. PAHs)	Water	8310	1 Liter	1 liter	Amber Glass	Cold		7 Days	Check Residual Chlorine at PM direction
PNAs (a.k.a. PAHs)	Soil	8310	30 g	4 oz.	Glass	Cold		14 Days	
EDB or DBCP	Water	8011	1 x	3 x	40 ml VOA	HCL		14 Days	Must Be Head Space Free
EDB or DBCP	Water	504.1	1 x	3 x	40 ml VOA	HCL/$Na_2S_2O_3$		14 Days	Must Be Head Space Free
EXPLOSIVES									
Nitroaromatics & Nitroamines	Water	8330	350 ml	1 Liter	Amber Glass	Cold		7 Days	Check Residual Chlorine at PM direction
Nitroaromatics & Nitroamines	Soil	8330	2 g	4 oz.	Glass	Cold		14 Days	
Nitroglycerin and PETN	Water	8330M	350 ml	1 Liter	Amber Glass	Cold		7 Days	Check Residual Chlorine at PM direction
Nitroglycerin and PETN	Soil	8330M	2 g	4 oz.	Glass	Cold		14 Days	
Perchlorate	Water	314.0	5 ml	125 ml	Plastic	Cold		28 Days	
Perchlorate	Soil	314.0M	4 g	4 oz.	Glass	Cold		28 Days	

PARAGON ANALYTICS, INC.
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Note: Request 3X - 5X Minimum Quantities for Re-Runs & MS/ MSD

PARAMETER	MATRIX	METHOD	Minimum Quantity	Standard Quantity	Container Type	Preserv.	Req'd pH	Holding Time	Additional Sample Receiving Concerns
RCRA CHARACTERIZATION									
Ignitability	Liquid	1010	100 ml	500 mL	Amber Glass	Cold		28 Days	
Ignitability	Solid	1010	100 g	4 oz.	Glass	Cold		28 Days	
Corrosivity/pH	Liquid	150.1 / 9040	20 ml	250 mL	Amber Glass	Cold		ASAP	
Corrosivity/pH	Solid	9045	20 g	4 oz.	Glass	Cold		ASAP	
Reactivity-Cyanide & Sulfide	Liquid	SW 846 7.3.3.2	10 g	250 mL	Amber Glass	Cold		7 Days	Head Space Free. Preservation with NaOH to pH ≥ 12 not r
Reactivity-Cyanide & Sulfide	Solid	SW 846 7.3.3.2	10 g	4 oz.	Glass	Cold		7 Days	Must Be Headspace Free
Paint Filter Liquids	Misc.	9095		4 oz.	Glass	Cold		14 Days	
TCLP									
Extraction	Liquid	1311	Variable	1Liter	Amber Glass	N/A		7 Days	Consult with PM for volume requirement.
Extraction - Volatiles, ZHE	Solid	1311	5 g	VOC	Glass	Cold		14 Days	Must Be Headspace Free
Extraction - SVs & Metals	Solid	1311	30 g	SV/Metal	Glass	Cold		14 Days	
SPLP	Solid	1312	30 g	SV/Metal	Glass	Cold		14 Days	
METALS									
Metals by ICP	Water	6010	50 ml	500 ml	Plastic	$HN0_3$	</= 2	180 days	
Metals by ICP	Soil	6010	1 g	4 oz.	Plastic	Cold		180 days	
Mercury	Water	7470	20 ml	1 L	Plastic	$HN0_3$	</= 2	28 Days	RCRA and TAL metals include ICP and Hg
Mercury	Soil	7471	0.6 g	4 oz.	Plastic	Cold		28 Days	RCRA and TAL metals include ICP and Hg
Chromium VI	Water	7196	20 ml	500 ml	Plastic/Glass	Cold		24 Hrs	
Chromium VI	Soil	7196	4 g	4 oz.	Plastic/Glass	Cold		28 Days	Clients sometimes specify shorter holding time
Chromium VI	Soil	3060/7196	2.5 g	4 oz.	Plastic/Glass	Cold		30 Days	3060 = Alkaline Digestion
MISCELLANEOUS PARAMETERS/COMPOUNDS									
Alkalinity - Carbonate/Bicarb./Hyd	Water	310.1M	100 ml	500 mL	Plastic	Cold		14 Days	
	Water	350.1	5 ml	125 mL	Plastic	H_2SO_4	</= 2	28 Days	
Cyanide, Total	Water	9010 or 335.2	50 ml	500 mL	Plastic	NaOH	>/=12	14 Days	
Cyanide, Total	Soil	9010	1 g	4 oz.	Glass	Cold		14 Days	
Cyanide (amenable)	Water	9010	100 ml	500 mL	Plastic	NaOH	>/=12	14 Days	
Chloride	Water	325.3	50 ml	250 mL	Plastic	Cold		28 Days	
Chloride	Soil	325.3M	4 g	8 oz.	Glass	Cold		28 Days	
Fluoride	Water	340.2	10 ml	125 mL	Plastic	Cold		28 Days	
Fluoride	Soil	340.2M	4 g	4 oz.	Glass	Cold		28 Days	
Hardness by Calculation	Water	6010 / 200.7	50 ml	125 mL	Plastic	Cold		180 Days	
Hydrogen lon (pH)	Water	150.1 / 9040	20 ml	125 mL	Plastic	Cold		ASAP	
Hydrogen Ion (pH)	Soil	9045	20 g	4 oz.	Plastic	Cold		ASAP	
IC Anions: Br, Cl, F, SO_4	Water	300.0/9056	5 ml	500 mL	Plastic	Cold		28 Days	
IC Anions: NO_2, NO_3, PO_4	Water	300.0/9056	5 ml	500 mL	Plastic	Cold		48 Hrs	
Nitrate/Nitrite as N	Water	353.2	5 ml	125 mL	Plastic	H_2SO_4	</= 2	28 Days	
Nitrate as N	Water	353.2	5 ml	125 mL	Plastic	Cold		48 Hrs	Must come preserved with H_2SO_4 for NO_2/NO_3
Nitrite as N	Water	354.1	20 ml	250 mL	Plastic	Cold		48 Hrs	Must come preserved with H_2SO_4 for NO_2/NO_3
MISCELLANEOUS PARAMETERS/COMPOUNDS (cont.)									
Organic Carbon Total - (TOC)	Water	415.1	1 ml	2 x 125	Amber Glass	H_2SO_4	</= 2	28 Days	
Organic Carbon Total - (TOC)	Soil	Walkley-Black	10 g	4 oz.	Amber Glass	Cold		28 Days	
Phosphate - Ortho as P	Water	365.2	25 ml	125 mL	Plastic	Cold		48 Hrs	
Phosphate - Ortho as P	Soil	365.2M	4 g	4 oz.	Glass	N/A		28 Days	
Phosphorus - Total as P	Water	365.2	50 ml	250 mL	Plastic	H_2SO_4	</= 2	28 Days	
Phosphorus - Total as P	Soil	365.2M	4 g	4 oz.	Glass	N/A		28 Days	

PARAGON ANALYTICS, INC.
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Note: Request 3X - 5X Minimum Quantities for Re-Runs & MS/ MSD

PARAMETER	MATRIX	METHOD	Minimum Quantity	Standard Quantity	Container Type	Preserv.	Req'd pH	Holding Time	Additional Sample Receiving Concerns
Sulfide	Water	376.1	200 ml	500mL	HDPE Bottle	NaOH/ZnOAc	>/=9	7 Days	
Specific Conductance	Water	120.1 or 9050	50 ml	250mL	HDPE Bottle	Cold		ASAP	
Total Dissolved Solids (TDS)	Water	160.1	100 ml	500 mL	Plastic	Cold		7 Days	
Total Suspended Solids (TSS)	Water	160.2	100 ml	500 mL	Plastic	Cold		7 Days	
Total Solids	Water	160.3	100 ml	500 mL	Plastic	Cold		7 Days	
Soil Prep. - (Water Extraction)	Soil	SW 846 7.3.4.1	10 g	N/A	N/A	Cold		N/A	
RADIOLOGICAL ANALYSES									
Alpha Spectrometry (AS)									
Americium - Isotopic (241)	Water	Alpha Isotopic	1 Liter	1 Liter	Plastic	HNO_3	</= 2	N/A	
Americium - Isotopic (241)	Solid	Alpha Isotopic	2 g	4 oz.	Plastic/Glass	N/A		N/A	
Curium - Isotopic (242, 243, 244)	Water	Alpha Isotopic	1 Liter	1 Liter	Plastic	HNO_3	</= 2	N/A	
Curium - Isotopic (242, 243, 244)	Solid	Alpha Isotopic	2 g	4 oz.	Plastic/Glass	N/A		N/A	
Neptunium - Isotopic (237)	Water	Alpha Isotopic	2 Liter	2 Liters	Plastic	HNO_3	</= 2	N/A	
Neptunium - Isotopic (237)	Solid	Alpha Isotopic	4 g	4 oz.	Plastic/Glass	N/A		N/A	
Plutonium - Isotopic (238, 239/240)	Water	Alpha Isotopic	1 Liter	1 Liter	Plastic	HNO_3	</= 2	N/A	
Plutonium - Isotopic (238, 239/240)	Solid	Alpha Isotopic	2 g	4 oz.	Plastic/Glass	N/A		N/A	
Polonium - Isotopic (210)	Water	Alpha Isotopic	1 Liter	1 Liter	Plastic	HNO_3	</= 2	N/A	
Polonium - Isotopic (210)	Solid	Alpha Isotopic	2 g	4 oz.	Plastic/Glass	N/A		N/A	
Thorium - Isotopic (228, 230, 232)	Water	Alpha Isotopic	1 Liter	1 Liter	Plastic	HNO_3	</= 2	N/A	
Thorium - Isotopic (228, 230, 232)	Solid	Alpha Isotopic	2 g	4 oz.	Plastic/Glass	N/A		N/A	
Thorium - Isotopic (224, 228, 230, 2	Water	Alpha Isotopic	1 Liter	1 Liter	Plastic	HNO_3	</= 2	N/A	
Thorium - Isotopic (224, 228, 230, 2	Solid	Alpha Isotopic	2 g	4 oz.	Plastic/Glass	N/A		N/A	
Uranium - Isotopic (233/234, 235, 23	Water	Alpha Isotopic	1 Liter	1 Liter	Plastic	HNO_3	</= 2	N/A	
Uranium - Isotopic (233/234, 235, 23	Solid	Alpha Isotopic	2 g	4 oz.	Plastic/Glass	N/A		N/A	
Uranium - Total	Water	Alpha Isotopic	1 Liter	100 ml	Plastic	HNO_3	</= 2	N/A	
Uranium - Total	Solid	Alpha Isotopic	2 g	4 oz.	Plastic/Glass	N/A		N/A	
Gamma Spectrometry (GS)									
Gamma Spec	Water	901.1	1 Liter	2 Liters	Plastic	HNO_3	</= 2	N/A	
Gamma Spec	Solid	901.1M	150 g	500 g	Glass	N/A		N/A	
Gross Gamma	Water	901.1	1 Liter	2 Liters	Plastic	HNO_3	</= 2	N/A	
Gross Gamma	Solid	901.1M	300 g	500 g	Glass	N/A		N/A	
Iron - (55)	Water	PAI SOP	1 Liter	2 Liters	Plastic	HNO_3	</= 2	N/A	
Iron - (55)	Solid	PAI SOP	1 g	5 g	Glass	N/A		N/A	
Ra -226/228	Solid	901.1M	150 g	500 g	Glass	N/A		N/A	
Liquid Scintillation Counting (LSC)									
Carbon - (14)	Water	PAI SOP	50 ml	1 Liter	Amber	None		N/A	
Carbon - (14)	Solid	PAI SOP	1 g	4 oz.	Glass	N/A		N/A	
Tritium	Water	906.0	30 ml	100 ml	Amber	None		N/A	
Tritium - (Water Exchangable)	Solid	PAI SOP	20 g	4 oz.	Glass	N/A		N/A	
Nickel - (63)	Water	PAI SOP	1 Liter	1 Liter	Either	HNO_3	</= 2	N/A	
Nickel - (63)	Solid	PAI SOP	1 g	4 oz.	Either	N/A		N/A	
Plutonium - (241)	Water	PAI SOP	1 Liter	1 Liter	Either	HNO_3	</= 2	N/A	
Plutonium - (241)	Solid	PAI SOP	2 g	4 oz.	Either	N/A		N/A	
Radon - (222)	Water	PAI SOP	40 ml	3 x	40 ml VOA	None		72 Hrs	Requires approval prior to receipt
Technetium - (99)	Water	PAI SOP	1 Liter	1 Liter	Either	HNO_3	</= 2	N/A	
Technetium - (99)	Solid	PAI SOP	1 g	4 oz.	Either	N/A		N/A	
Gas Flow Proportional Counting (GFP)									
Gross Alpha/Beta	Water	900.0 / 9310	150 ml	1 Liter	Plastic	HNO_3	</= 2	N/A	

PARAGON ANALYTICS, INC.
AN EMPLOYEE OWNED SMALL BUSINESS

Note: Request 3X - 5X Minimum Quantities for Re-Runs & MS/ MSD

PARAMETER	MATRIX	METHOD	Minimum Quantity	Standard Quantity	Container Type	Preserv.	Req'd pH	Holding Time	Additional Sample Receiving Concerns
Gross Alpha/Beta (Leach)	Solid	900.0M / 9310M	3 g	4 oz.	Either	N/A		N/A	
Radium Total Alpha Emitting Isotopes	Water	903.0 / 9315	500 ml	1 Liter	Plastic	$HN0_3$	</= 2	N/A	Some clients will request as Ra-226
Radium Total Alpha Emitting Isotopes	Solid	903.0M / 9315M	1 g	4 oz.	Either	N/A		N/A	Preferred method for solids is Gamma Spec
Radium - (228)	Water	904.0 / 9320	1.5 Liter	1.5 Liter	Plastic	$HN0_3$	</= 2	N/A	
Radium - (228)	Solid	904.0M / 9320M	1 g	4 oz.	Either	N/A		N/A	Preferred method for solids is Gamma Spec
Iodine - (129)	Water	902.0M	2 Liter	1 Liter	Plastic	None		N/A	
Iodine - (129)	Solid	902.0M	2 g	4 oz.	Either	N/A		N/A	
Lead - (210)	Water	PAI SOP	1 Liter	1 Liter	Plastic	$HN0_3$	</= 2	N/A	
Lead - (210)	Solid	PAI SOP	1 g	4 oz.	Either	N/A		N/A	
Sr - (90) Total Radiostrontium	Water	PAI SOP	1 Liter	1 Liter	Plastic	$HN0_3$	</= 2	N/A	
Sr - (90) Total Radiostrontium	Solid	PAI SOP	1 g	4 oz.	Either	N/A		N/A	
Sr - (89/90) (See note below)	Water	PAI SOP	1 Liter	1 Liter	Plastic	$HN0_3$	</= 2	N/A	
Sr - (89/90) (See note below)	Solid	PAI SOP	1 g	4 oz.	Either	N/A		N/A	
Technetium - (99)	Water	PAI SOP	1 Liter	1 Liter	Either	$HN0_3$	</= 2	N/A	
Technetium - (99)	Solid	PAI SOP	1 g	4 oz.	Either	N/A		N/A	
EPA Drinking Water Compliance Methodologies									
Gross Alpha and Beta (GFP)	Water	900.0/9310	150 ml	1 Liter	Either	$HN0_3$	</= 2	N/A	
Gross Alpha Coprecipitation (GF	Water	901.1	150 ml	1 Liter	Either	$HN0_3$	</= 2	N/A	
Radioiodine (GFP)	Water	902.0	2 Liter	1 Liter	Amber	N/A		N/A	
Rn -222 by Alpha-Scintillation (Rn-Em	Water	913.0	80 ml	3 x VOA	40 mI VOA	N/A		72 Hrs	Requires approval prior to receipt
Ra -226 by Alpha-Scintillation (Rn-Em	Water	903.1	1 Liter	1 Liter	Either	$HN0_3$	</= 2	N/A	
Ra -228 (GFP)	Water	904.0	1.5 Liter	1.5 Liter	Either	$HN0_3$	</= 2	N/A	
Tritium by LSC	Water	906.0	30 ml	1 Liter	Glass	N/A		N/A	
Total Uranium by Alpha Spec.	Water	ASTM D3972-90M	1 Liter	1 Liter	Either	$HN0_3$	</= 2	N/A	
Isotopic Uranium by Alpha Spec.	Water	ASTM D3972-90M	1 Liter	1 Liter	Either	$HN0_3$	</= 2	N/A	
Isotopic Thorium by Alpha Spec.	Water	ASTM D3972-90M	1 Liter	1 Liter	Either	$HN0_3$	</= 2	N/A	

Appendix E

Paragon Analytics, Inc. -- Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT FORM

CLIENT: _____ **WORKORDER NO:** _____

PROJECT MANAGER: _____ **INITIALS:** _____ **DATE:** _____

1. Does this project require any special handling in addition to standard Paragon procedures?		Yes	No
IS PRE-SCREENING REQUIRED? (radiochemistry, DOE, etc.)		Yes	No
2. Are custody seals on shipping containers intact? How many custody seals are provided? _____	N/A	Yes	No
3. Are the custody seals on sample containers intact?	N/A	Yes	No
4. Is there a Chain-of-Custody (COC) or other representative documents, letters, or shipping memos?		Yes	No
5. Is the COC complete? Relinquished: Yes___ No___ Analyses Requested: Yes___ No___	N/A	Yes	No
6. Is the COC in agreement with the samples received? No. of Samples: Yes___ No___ Sample ID's: Yes___ No___ Matrix: Yes___ No___ No. of Containers: Yes___ No___	N/A	Yes	No
7. Were COC (if applicable) and sample labels legible?		Yes	No
8. Were airbills present and/or removable?	N/A	Yes	No
9. Are all aqueous samples requiring chemical preservation preserved correctly (excluding volatile organics)?	N/A	Yes	No
Are all aqueous **non-preserved** samples at the correct pH?		Yes	No
10. Is there enough sample for requested analyses? If so, were samples placed in the proper containers?		Yes	No
11. Are all samples within holding times for the requested analyses?		Yes	No
12. Were all sample containers received intact? (not broken or leaking, etc.)		Yes	No
13. Are samples requiring no headspace (volatiles, reactive cyanide/sulfide, radon), headspace free? **Size of bubble: ___ < green pea; ___ > green pea** (List sample IDs and affected containers on Page 2)	N/A	Yes	No
14. Were samples checked for and free from the presence of residual chlorine?	N/A	Yes	No
15. Were the sample(s) shipped on ice?	N/A	Yes	No
16. Were cooler temperatures measured at 0.1 - 6 °C ? **IR Gun Used*: 1 2**	N/A	Yes	No
17. Were all samples cooled that should have been cooled?	N/A	Yes	No

Cooler #'s _____ _____ _____ _____ _____ _____

Temperature _____ _____ _____ _____ _____ _____ **° C**

Project Manager Signature / Date: _____

A NO RESPONSE TO ANY QUESTION EXCEPT # 1 REQUIRES THE COMPLETION OF PAGE 2 OF THIS FORM

* IR Gun #1 (original): Raytek, SN SC-PM3/T29403
IR Gun #2 (newer): Oakton, SN 2SCIR1201

Paragon Analytics, Inc. -- Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT FORM

CLIENT: _____ **WORKORDER NO:** _____

PROJECT MANAGER: _____ **INITIALS:** _____ **DATE:** _____

- ☐ **Custody seals** broken (on outside of shipping container or on sample containers).
- ☐ No Chain-of-Custody (**COC**) present.
- ☐ **Number of samples** on the COC do not match the number of samples received.
- ☐ Aqueous samples **not preserved correctly** (see pH discussion below).
- ☐ SVOC samples contained **residual chlorine** (list sample IDs and affected containers below).
- ☐ Samples received at **inappropriate temperature**.
- ☐ **Insufficient sample** to perform requested analyses.
- ☐ Extraction or analytical **holding times** expired in transit.
- ☐ **Broken/leaking bottles** and intact bottles received in same cooler (list affected sample IDs below).
- ☐ **No analyses requested.**
- ☐ **Incorrect sample type** received.
- ☐ VOAs, reactive CN/S, radon not **headspace** free (list sample IDs and affected vials below).
- ☐ **Airbills** not present and/or removable (record applicable shipper's tracking number below).
- ☐ Other (describe below).

Describe discrepancy:

_____

_____

_____

_____

_____

_____

_____

_____

_____

Was the client contacted? ___ No; ___ Yes: Name _____ Date/Time _____

Was the pH of any sample adjusted by the laboratory? ___ No; ___ Yes (see Table below):

NOTE: No pH adjustments shall be made without prior consent of Project Manager. After pH adjustment, hold metals and radchem samples ≥ 16 hr before analysis.

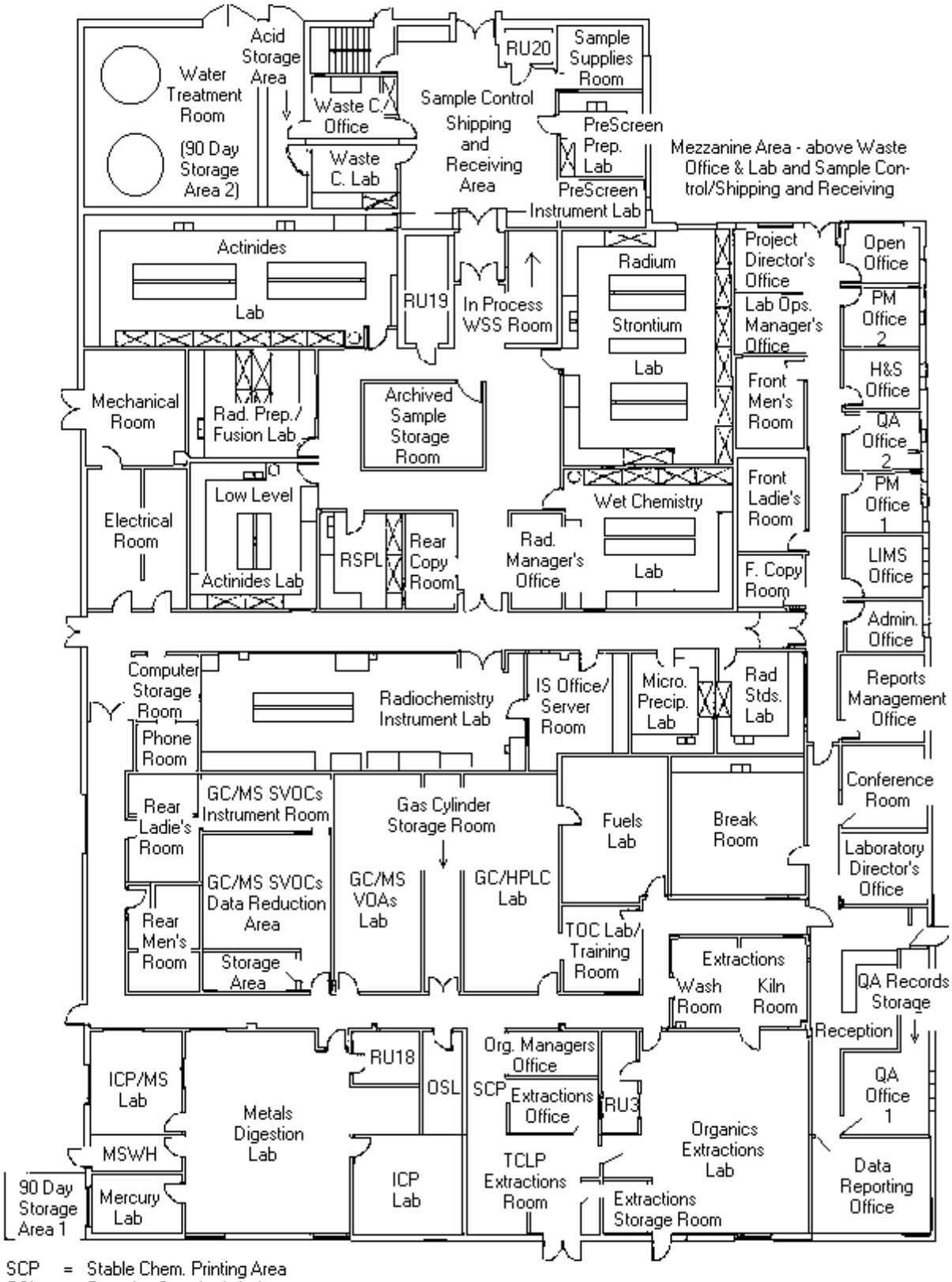
Sample ID	*Initial pH*	*Final pH (wait 30 min)*	*Type of Reagent Used*	*Lot No. of Reagent Used*	*Initials / Date / Time*

Was the laboratory directed to proceed with the analysis of any samples yielding the presence of residual chlorine? ___ No; ___ Yes (see notes above).

Project Manager Signature / Date: _____

Appendix F

Paragon Analytics, Inc.



SCP = Stable Chem. Printing Area
OSL = Organics Standards Laboratory
RSPL = Rad. Sample Prep. Lab
WSS = Warm Sample Storage
MSWH = Metals Satellite Waste Hall

Names_Mapr2.bmp (3/3/03)

Appendix G

PARAMETER	MATRIX	METHOD	Minimum TAT	Sample Quantity	Container Type	Preserv.	Holding Time
ORGANIC COMPOUNDS by GCMS (VOCs & SVOCs)							
VOCs w/ TICs	Water	EPA 8260B / 524.2 / 624	24 Hrs	3x	40 mL VOA	HCl or Cold	7 or 14 Days
VOCs w/ TICs	Soil	EPA 8260B	24 Hrs	4 oz.	Glass	Cold	14 Days
SVOCs w/ TICs	Water	EPA 8270C	72 Hrs	2 liters	Amber Glass	Cold	7 Days
SVOCs w/ TICs	Soil	EPA 8270C	72 Hrs	4 oz.	Glass	Cold	14 Days
CLP VOCs and/or SVOCs	By Request	EPA CLP SOW					
FUELS							
BTEX only	Water	EPA 8021B	24 Hrs	3x	40 mL VOA	HCl	7 or 14 Days
BTEX only	Soil	EPA 8021B	24 Hrs	4 oz.	Glass	Cold	14 Days
TVPH as Gasoline	Water	EPA 8015M	24 Hrs	3x	40 mL VOA	HCl	7 or 14 Days
TVPH as Gasoline	Soil	EPA 8015M	24 Hrs	4 oz.	Glass	Cold	14 Days
TVPH as Gasoline & BTEX	Water	EPA 8015M & 8021B	24 Hrs	3x	40 mL VOA	HCl	7 or 14 Days
TVPH as Gasoline & BTEX	Soil	EPA 8015M & 8021B	24 Hrs	4 oz.	Glass	Cold	14 Days
TEPH as Diesel	Water	EPA 8015M	24 Hrs	2 x 500	Amber Glass	HCl	7 or 14 Days
TEPH as Diesel	Soil	EPA 8015M	24 Hrs	4 oz.	Glass	Cold	14 Days
Oil and Grease - Freon Extractable	By Request	-	-	-	-	-	-
Oil and Grease	Water	EPA 9070	24 Hrs	2 Liter	Amber Glass	HCl	28 Days
Oil and Grease	Solid	EPA 9071A	24 Hrs	4 oz.	Amber Glass	Cold	28 Days
TRPH - Hexane Extractable	Water	EPA 1664	24 Hrs	2 x 250	Amber Glass	HCl	28 Days
TRPH - Hexane Extractable	Solid	EPA 9071A	24 Hrs	4 oz.	Amber Glass	Cold	28 Days
TRPH - Freon Extractable	By Request	-	-	-	-	-	-
PESTICIDES / HERBICIDES / PCBs / MISCELLANEOUS ORGANIC COMPOUNDS							
Organochlorine Pest/PCBs	Water	EPA 8081A *	48 Hrs	2 Liter	Amber Glass	Cold	7 Days
Organochlorine Pest/PCBs	Soil	EPA 8081A *	48 Hrs	8 oz.	Glass	Cold	14 Days
PCBs Only	Water	EPA 8081A or 8082	48 Hrs	2 Liter	Amber Glass	Cold	7 Days
PCBs Only	Soil	EPA 8081A or 8082	48 Hrs	8 oz.	Glass	Cold	14 Days
Organophosphorus Pesticides	Water	EPA 8141A *	48 Hrs	2 Liter	Amber Glass	Cold	7 Days
Organophosphorus Pesticides	Soil	EPA 8141A *	48 Hrs	8 oz.	Glass	Cold	14 Days
Chlorinated Herbicides	Water	EPA 8151A / 615	72 Hrs	2 Liter	Amber Glass	Cold	7 Days
Chlorinated Herbicides	Soil	EPA 8151A / 615	96 Hrs	8 oz.	Glass	Cold	14 Days
EDB	Water	EPA 504.1 / 8011	48 Hrs	3x	40 mL VOA	HCl/Na2S2O3 or Cold	7 or 14 Days
EDB and DBCP	Water	EPA 504.1 / 8011	48 Hrs	3x	40 mL VOA	HCl/Na2S2O3 or Cold	7 or 14 Days

PARAMETER	MATRIX	METHOD	Minimum TAT	Sample Quantity	Container Type	Preserv.	Holding Time
PNAs (a.k.a. PAHs)	Water	EPA 8310 *	48 Hrs	1 liter	Amber Glass	Cold	7 Days
PNAs (a.k.a. PAHs)	Soil	EPA 8310 *	96 Hrs	4 oz.	Glass	Cold	14 Days
*** SDWA (500 Series) and CWA (NPDES-600 Series) modified methods are available upon request (e.g. 515.1, 608, 610, & 614)**							
EXPLOSIVES							
Nitroaromatics & Nitroamines	Water	EPA 8330	24 Hrs	1 Liter	Amber Glass	Cold	7 Days
Nitroaromatics & Nitroamines	Soil	EPA 8330	48 Hrs	4 oz.	Glass	Cold	14 Days
Nitroglycerin and PETN	Water	PAI SOP or 8330M	24 Hrs	1 Liter	Amber Glass	Cold	7 Days
Nitroglycerin and PETN	Soil	PAI SOP or 8330M	48 Hrs	4 oz.	Glass	Cold	14 Days
Perchlorate	Water	EPA 314.0	24 Hrs	500 mL	Plastic	N/A	28 Days
Perchlorate	Soil	EPA 314.0M	24 Hrs	4 oz.	Glass	Cold	28 Days
Nitroguanadine	Water	PAI SOP	24 Hrs	3x	40 mL VOA	Cold	7 Days
Nitroguanadine	Soil	PAI SOP	24 Hrs	4 oz.	Glass	Cold	14 Days
Nitrocellulose	Water	PAI SOP	48 Hrs	1 Liter	Amber Glass	Cold	7 Days
Nitrocellulose	Soil	PAI SOP	48 Hrs	4 oz.	Glass	Cold	14 Days
RCRA CHARACTERIZATION							
Ignitability	Liquid	EPA 1010	24 Hrs	500 mL	Amber Glass	Cold	28 Days
Ignitability	Solid	EPA 1010	24 Hrs	4 oz.	Glass	Cold	28 Days
Corrosivity	Liquid	EPA 150.1 / 9040B	24 Hrs	100 mL	Amber Glass	Cold	ASAP
Corrosivity	Solid	EPA 9045C	24 Hrs	4 oz.	Glass	Cold	ASAP
Reactivity-Cyanide & Sulfide	Liquid	SW 846 7.3	24 Hrs	1 Liter	Plastic	NaOH	7 Days
Reactivity-Cyanide & Sulfide	Solid	SW 846 7.3	24 Hrs	4 oz.	Glass	Cold	14 Days
Paint Filter Liquids	Misc.	EPA 9095A	24 Hrs	4 oz.	Glass	Cold	14 Days

PARAMETER	MATRIX	METHOD	Minimum TAT	Sample Quantity	Container Type	Preserv.	Holding Time
TCLP							
Percent Solids Determination	Liquid	EPA 1311	24 Hrs	1Liter	Amber Glass	N/A	7 Days
Extraction - Volatiles, ZHE	Solid	EPA 1311	24 Hrs	VOC	Glass	Cold	14 Days
Extraction - SVs & Metals	Solid	EPA 1311	24 Hrs	SV/Metal	Glass	Cold	14 Days
SPLP	Solid	EPA 1312	24 Hrs	SV/Metal	Glass	Cold	14 Days
VOCs	Leachate	EPA 8260B	48 Hrs	4 oz.	Glass	Cold	14 Days
SVOCs	Leachate	EPA 8270C	4 Days	4 oz.	Glass	Cold	7 Days
Organochlorine Pesticides	Leachate	EPA 8081A	72 Hrs	4 oz.	Glass	Cold	7 Days
Chlorinated Herbicides	Leachate	EPA 8151A	4 Days	4 oz.	Glass	Cold	7 Days
8 RCRA Metals	Leachate	EPA 6010B & 7470A	48 Hrs	4 oz.	Glass	Cold	28-Hg / 6 Mo.
METALS							
23 TAL Metals wo/CN (ICP/CVAA)	Water	CLP SOW for Inorg.	24 Hrs	1 L	Plastic	HNO3	28-Hg / 6 Mo.
23 TAL Metals wo/CN (ICP/CVAA)	Soil	CLP SOW for Inorg.	24 Hrs	4 oz.	Plastic	None	28-Hg / 6 Mo.
Appendix IX Metals	Water	EPA 6010B & 7470A	24 Hrs	1 L	Plastic	HNO3	28-Hg / 6 Mo.
Appendix IX Metals	Soil	EPA 6010B & 7471A	24 Hrs	4 oz.	Plastic	None	28-Hg / 6 Mo.
8 RCRA Metals (ICP/CVAA)	Water	EPA 6010B & 7470A	24 Hrs	1 L	Plastic	HNO3	28-Hg / 6 Mo.
8 RCRA Metals (ICP/CVAA)	Soil	EPA 6010B & 7471A	24 Hrs	4 oz.	Plastic	None	28-Hg / 6 Mo.
Mercury	Water	EPA 7470A / 245.1	24 Hrs	1 L	Plastic	HNO3	28 Days
Mercury	Soil	EPA 7471A/ 245.1	24 Hrs	4 oz.	Plastic	None	28 Days
Chromium VI	Water	EPA 7196A	24 Hrs	1 L	Plastic	N/A	24 Hrs
Chromium VI (w/ DI Leach)	Soil	EPA 7196A	24 Hrs	4 oz.	Plastic	None	28 Days
California Title 22 Metals		Title 22	24 Hrs	N/A	N/A	N/A	N/A
Citric Acid or DI Water Extraction		CAL-WET	24 Hrs	N/A	N/A	N/A	N/A
ICP (per element)*	Water	EPA 6010B / 200.7	24 Hrs	1 L	Plastic	HNO3	6 Months
ICP (per element)*	Soil	EPA 6010B	24 Hrs	4 oz.	Plastic	None	6 Months
ICP-MS	Either	EPA 6020					

*** Add $15 sample digestion fee per sample for waters and soils.**

Metals Digestions (Pricing for individual ICP Metals - *Digestion fees are already included in RCRA, TAL, App. IX

Acid Digestion for Total Dissolved or Recoverable Metals by IC	Aqueous	EPA 3005A / 200.2	24 Hrs	N/A	N/A	HNO3	6 Months
Acid Digest. for Total Metals (ICP)	Aqueous	EPA 3010A	24 Hrs	N/A	N/A	HNO3	6 Months
Acid Digest. for Soils, Sludges, & Se	Solids	EPA 3050B	24 Hrs	N/A	N/A	N/A	6 Months
Acid Digest. for Total Dissolution	Solids	EPA 3050M	24 Hrs	N/A	N/A	N/A	6 Months

PARAMETER	MATRIX	METHOD	Minimum TAT	Sample Quantity	Container Type	Preserv.	Holding Time
Digest Oil, Grease, or Waxes	Organics	EPA 3050M	24 Hrs	N/A	N/A	N/A	6 Months
MISCELLANEOUS PARAMETERS / COMPOUNDS							
Alkalinity - Carbonate/Bicarb.	Water	EPA 310.1M	24 Hrs	125 mL	Plastic	Cold	14 Days
Ammonia as N	Water	EPA 350.1	24 Hrs	125 mL	Plastic	H2SO4	28 Days
Cyanide, Total	Water	9010A or 9010B&9014	24 Hrs	125 mL	Plastic	NaOH	14 Days
Cyanide, Total	Soil	9010A or 9010B&9014	24 Hrs	4 oz.	Glass	Cold	Not Specified
Cyanide Amenable to Chlorination	Water	9010A or 9010B&9014	24 Hrs	125 mL	Plastic	NaOH	14 Days
Cyanide Amenable to Chlorination	Soil	9010A or 9010B&9014	24 Hrs	4 oz.	Glass	Cold	Not Specified
Chloride (also see IC 300.0)	Water	EPA 325.3	24 Hrs	125 mL	Plastic	Cold	28 Days
Chloride (also see IC 300.0)	Soil	EPA 325.3	24 Hrs	8 oz.	Glass	Cold	28 Days
Fluoride (also see IC 300.0)	Water	EPA 340.2	24 Hrs	125 mL	Plastic	Cold	28 Days
Fluoride (also see IC 300.0)	Soil	EPA 340.2	24 Hrs	4 oz.	Glass	Cold	28 Days
Hardness by Calculation	Water	6010B/ 200.7	24 Hrs	125 mL	Plastic	Cold	Not Specified
Hydrogen lon (pH)	Water	EPA 150.1 / 9040B	24 Hrs	125 mL	Plastic	Cold	ASAP
Hydrogen Ion (pH)	Soil	EPA 9045C	24 Hrs	4 oz.	Plastic	Cold	14 Days
IC Anions: Br, Cl, F, NO2, NO3, PO4,	Water	EPA 300.0/9056	24 Hrs	500 mL	Plastic	N/A	48 Hr.&28 Days
Nitrate/Nitrite	Water	EPA 353.2	24 Hrs	125 mL	Plastic	H2SO4	28 Days
Nitrate as NO3/NO2 - N (also see IC	Water	EPA 353.2	24 Hrs	125 mL	Plastic	Cold	48 Hrs
Nitrite (also see IC 300.0)	Water	EPA 354.1	24 Hrs	125 mL	Plastic	Cold	48 Hrs
Organic Carbon, Total - (TOC)	Water	EPA 415.1	24 Hrs	2 x 125	Amber Glass	H2SO4	28 Days
Organic Carbon, Total - (TOC)	Water	EPA 9060	24 Hrs	2 x 125	Amber Glass	H2SO4	28 Days
Organic Carbon, Total - (TOC)	Soil	Walkley Black	24 Hrs	4 oz.	Glass	Cold	28 Days
MISCELLANEOUS PARAMETERS / COMPOUNDS (cont.)							
Organic Halides, Total: (TOX, EOX	By Request	-	-	-	-	-	-
Percent Moisture	Soil	CLP or ASTM 2216-92	24 Hrs	4 oz.	Glass	Cold	14 Days
Perchlorate	Water	EPA 314.0	24 Hrs	500 mL	Plastic	N/A	28 Days
Perchlorate	Soil	EPA 314.0M	24 Hrs	4 oz.	Glass	Cold	28 Days
Phosphate - Ortho as P	Water	EPA 365.2	24 Hrs	125 mL	Plastic	Cold	48 Hrs
Phosphate - Ortho as P	Soil	EPA 365.2M	24 Hrs	125 mL	Glass	N/A	28 Days
Phosphorus - Total as P	Water	EPA 365.2	24 Hrs	125 mL	Plastic	H2SO4	28 Days
Sulfide	Water	EPA 376.1	24 Hrs	250mL	HDPE Bottle	NaOH/ZnOAc	7 Days
Specific Conductivity	Water	EPA 120.1	24 Hrs	250mL	HDPE Bottle	N/A	28 Days
Total Dissolved Solids (TDS)	Water	EPA 160.1	24 Hrs	500 mL	Plastic	N/A	7 Days

PARAMETER	MATRIX	METHOD	Minimum TAT	Sample Quantity	Container Type	Preserv.	Holding Time
Total Suspended Solids (TSS)	Water	EPA 160.2	24 Hrs	500 mL	Plastic	N/A	7 Days
Total Solids	Water	EPA 160.3	24 Hrs	500 mL	Plastic	N/A	7 Days
Total Volatile Solids	Water	EPA 160.4	24 Hrs	500 mL	Plastic	N/A	7 Days
Total Settleable Solids	Water	EPA 160.5	24 Hrs	500 mL	Plastic	N/A	48 Hrs
Soil Prep. - (Water Extraction)	Soil	SW 846 7.3.4.1	24 Hrs	N/A	N/A	N/A	N/A
RADIOLOGICAL ANALYSES							
ALPHA SPECTROMETRY (AS)							
Americium - Isotopic (241)	Water	ASTM D3972-90M	5 Days	1 Liter	Plastic	HN03	N/A
Americium - Isotopic (241)	Solid	ASTM D3972-90M	5 Days	100 g	Plastic	N/A	N/A
Curium - Isotopic (242, 243, 244)	Water	ASTM D3972-90M	5 Days	1 Liter	Plastic	HN03	N/A
Curium - Isotopic (242, 243, 244)	Solid	ASTM D3972-90M	5 Days	100 g	Plastic	N/A	N/A
Neptunium - Isotopic (237)	Water	PAI SOP	5 Days	2 Liters	Plastic	HN03	N/A
Neptunium - Isotopic (237)	Solid	PAI SOP	5 Days	100 g	Plastic	N/A	N/A
Plutonium - Isotopic (238, 239/240)	Water	ASTM D3972-90M	3 Days	1 Liter	Plastic	HN03	N/A
Plutonium - Isotopic (238, 239/240)	Solid	ASTM D3972-90M	3 Days	100 g	Plastic	N/A	N/A
Polonium - Isotopic (210)	Water	ASTM D3972-90M	5 Days	1 Liter	Plastic	HN03	N/A
Polonium - Isotopic (210)	Solid	ASTM D3972-90M	5 Days	100 g	Plastic	N/A	N/A
Thorium - Isotopic (228, 230, 232)	Water	ASTM D3972-90M	3 Days	1 Liter	Plastic	HN03	N/A
Thorium - Isotopic (228, 230, 232)	Solid	ASTM D3972-90M	3 Days	100 g	Plastic	N/A	N/A
Thorium - Isotopic (224, 227, 228, 23	Water	ASTM D3972-90M	5 Days	1 Liter	Plastic	HN03	N/A
Thorium - Isotopic (224, 227, 228, 23	Solid	ASTM D3972-90M	5 Days	100 g	Plastic	N/A	N/A
Uranium - Isotopic (233/234, 235, 238	Water	ASTM D3972-90M	3 Days	1 Liter	Plastic	HN03	N/A
Uranium - Isotopic (233/234, 235, 238	Solid	ASTM D3972-90M	3 Days	100 g	Plastic	N/A	N/A
Uranium - Total	Water	ASTM D3972-90M	5 Days	100 ml	Plastic	HN03	N/A
Uranium - Total	Solid	ASTM D3972-90M	5 Days	100 g	Plastic	N/A	N/A
GAMMA SPECTROMETRY (GS)							
Gamma Emitters - Stock Library* , '	Water	EPA 901.1	24 Hrs	2 Liters	Plastic	HN03	N/A
Gamma Emitters - Stock Library* , '	Solid	EPA 901.1M	24 Hrs	500 g	Glass	N/A	N/A
Gross Gamma	Water	EPA 901.1	24 Hrs	2 Liters	Plastic	HN03	N/A
Gross Gamma	Solid	EPA 901.1M	24 Hrs	500 g	Glass	N/A	N/A
Iron - (55)	Water	RESL Fe-01M	5 Days	2 Liters	Plastic	N/A	N/A
Iron - (55)	Solid	RESL Fe-01M	5 Days	5 g	Glass	HN03	N/A

PARAMETER	MATRIX	METHOD	Minimum TAT	Sample Quantity	Container Type	Preserv.	Holding Time
Nickel - (59)	Water	RESL Ni-01M	5 Days	2 Liters	Plastic	N/A	N/A
Nickel - (59)	Solid	RESL Ni-01M	5 Days	5 g	Glass	HN03	N/A
Ra -226/228 - (Bi/Pb-214 ingrowth)	Solid	EPA 901.0M	27 Days	500 g	Glass	N/A	N/A
Ra -226/228 - (Screening)	Solid	EPA 901.0M	2 Days	500 g	Glass	N/A	N/A

***Client specifies Gamma Library: Natural Products (NP), Activation & Fission Products (FA), Combined FANP, or other stock libraries.**

****Gamma Spec Custom List prices depend on isotopes requested. Isotopes and DQO's will be addressed on a case by case basis. Please Inquire**

KINETIC PHOSPHORESCENCE ANALYSES (KPA)

Total Uranium	Water	ASTM D5174-91	24 Hrs	1 Liter	Plastic	HN03	N/A
Total Uranium	Solid	ASTM D5174-91M	48 Hrs	100 g	Either	N/A	N/A

PARAMETER	MATRIX	METHOD	Minimum TAT	Sample Quantity	Container Type	Preserv.	Holding Time
LIQUID SCINTILLATION COUNTING (LSC)							
Carbon - (14)	Water	EERF C-01M	5 Days	1 Liter	Amber	N/A	N/A
Carbon - (14)	Solid	EERF C-01M	5 Days	100 g	Glass	N/A	N/A
Tritium	Water	EPA 906.0	72 Hrs	100 ml	Amber	N/A	N/A
Tritium - (Water Exchangable)	Solid	PAI SOP	72 Hrs	200 g	Glass	N/A	N/A
Nickel - (63)	Water	RESL Ni-01M	5 Days	1 Liter	Either	HN03	N/A
Nickel - (63)	Solid	RESL Ni-01M	5 Days	100 g	Either	N/A	N/A
Plutonium - (241)	Water	ASTM D3972-90M	5 Days	1 Liter	Either	HN03	N/A
Plutonium - (241)	Solid	ASTM D3972-90M	5 Days	100 g	Either	N/A	N/A
Technetium - (99)	Please Inquire						
Selenium - (79)	Please Inquire						
Promethium - (147)	Please Inquire						
Samarium - (151)	Please Inquire						
GAS FLOW PROPORTIONAL COUNTING (GFP)							
Gross Alpha/Beta	Water	900.0 / 9310	24 Hrs	1 Liter	Plastic	HN03	N/A
Gross Alpha/Beta (Leach)	Solid	900.0M / 9310M	24 Hrs.	100 g	Either	N/A	N/A
Radium Tot. Alpha Emitting Isotopes	Water	903.0 / 9315	72 Hrs.	1 Liter	Plastic	HN03	N/A
Radium Tot. Alpha Emitting Isotopes	Solid	903.0M / 9315M	5 Days	1 Liter	Either	N/A	N/A
Radium - (228)	Please Inquire	EPA 9320	5 Days	1.5 Liter	Plastic	HN03	6 mo
Iodine - (129)	Water	902.0M	10 Days	1 Liter	Plastic	N/A	6 mo
Iodine - (129)	Solid	902.0M	10 Days	100 g	Either	N/A	N/A
Lead - (210)	Water	ASTM D5811-95M	10 Days	1 Liter	Plastic	HN03	N/A
Lead - (210)	Solid	ASTM D5811-95M	10 Days	100 g	Either	N/A	N/A
Sr - (90) Total Radiostrontium	Water	ASTM D5811-95M	72 Hrs	1 Liter	Plastic	HN03	N/A
Sr - (90) Total Radiostrontium	Solid	ASTM D5811-95M	72 Hrs	100 g	Either	N/A	N/A
Sr - (89/90) (See note below)	Water	ASTM D5811-95M	15 Days	1 Liter	Plastic	HN03	N/A
Sr - (89/90) (See note below)	Solid	ASTM D5811-95M	15 Days	100 g	Either	N/A	N/A
Tc - (99)	Water	Eichrom	72 Hrs	1 Liter	Plastic	N/A	N/A
Tc - (99)	Solid	Eichrom	72 Hrs	100 g	Either	N/A	N/A
Pm - (147)	Please Inquire						

++72 Hr and 5 day TAT for Total Radiostrontium only. **Sr-90 or Sr-89 reported separately for Sr 89/90**

ALPHA SCINTILLATION

PARAMETER	MATRIX	METHOD	Minimum TAT	Sample Quantity	Container Type	Preserv.	Holding Time
Ra -226 (Rn-Emanation)	Water	EPA 903.1	14 Days	1 Liter	Either	$HN0_3$	N/A
Ra -226 (Rn-Emanation)	Solid	EPA 903.1M	14 Days	4 oz	Either	N/A	N/A
EPA DRINKING WATER COMPLIANCE METHODOLOGIES							
Gross Alpha and Beta (GFP)	Water	EPA 900.0/7110	24 Hrs	1 Liter	Either	$HN0_3$	N/A
Gross Alpha Coprecipitation (GFP	Water	EPA 900.1	5 Days	1 Liter	Either	$HN0_3$	N/A
Radioiodine (GFP)	Water	EPA 902.0	5 Days	1 Liter	Amber	N/A	N/A
Rn -222	Water	EPA 913	5 Days	3 x VOA	40 mI VOA	N/A	N/A
Ra -226 by Alpha-Scintillation (Rn-Emar	Water	EPA 903.1	30 Days	1 Liter	Either	$HN0_3$	N/A
Ra -226 (GFP - Total Radium Alpha)	Water	EPA 903.0	15 Days	1 Liter	Either	$HN0_3$	N/A
Ra -228 (GFP)	Water	EPA 904.0	15 Days	1 Liter	Plastic	$HN0_3$	6 mo
Tritium by LSC	Water	EPA 906.0	24 Hrs	1 Liter	Glass	N/A	N/A
Total Uranium by KPA	Water	ASTM D5174-91	24 Hrs	1 Liter	Either	$HN0_3$	N/A
Total Uranium by Alpha Spec.	Water	ASTM D3972-90M	72 Hrs	1 Liter	Either	$HN0_3$	N/A
Isotopic Uranium by Alpha Spec.	Water	ASTM D3972-90M	72 Hrs	1 Liter	Either	$HN0_3$	N/A
Isotopic Thorium by Alpha Spec.	Water	ASTM D3972-90M	72 Hrs	1 Liter	Either	$HN0_3$	N/A
Gamma Spectroscopy	Water	EPA 901.1	24 Hrs	1 Liter	Either	$HN0_3$	N/A
SW 846 COMPLIANCE METHODOLOGIES							
Gross Alpha and Beta	Waste	EPA 9310	24 Hrs	1 L	Either	$HN0_3$	180 days
Ra -226 by GFP (Total Radium Alpha)	Waste	EPA 9315	72 Hrs	1 L	Either	$HN0_3$	180 days
Ra -228 by GFP	Water	EPA 9320	10 Days	1 L	Either	$HN0_3$	180 days
Ra -228 by GFP	Soil	EPA 9320	10 Days	10 g	Either	N/A	180 days

PARAMETER	MATRIX	METHOD	Minimum TAT	Sample Quantity	Container Type	Preserv.	Holding Time
ORGANICS SAMPLE CLEAN-UPs & SPECIAL PREPARATIONS							
Alumina Column Clean-up		EPA 3610B	24 Hrs	N/A	N/A	N/A	N/A
Florisil Column Clean-up		EPA 3620B	24 Hrs	N/A	N/A	N/A	N/A
Silica Gel Clean-up		EPA 3630C	24 Hrs	N/A	N/A	N/A	N/A
Gel-Permeation Clean-up		EPA 3640A	24 Hrs	N/A	N/A	N/A	N/A
Sulfur Clean-up		EPA 3660B	24 Hrs	N/A	N/A	N/A	N/A
Sulfuric Acid Clean-up		EPA 3665A	24 Hrs	N/A	N/A	N/A	N/A
Waste Dilution	Solid/Liq.	EPA 3580A	24 Hrs	N/A	N/A	N/A	N/A

Sample Clean-Up may be included in the full analysis cost. Inquire for specifics.

Ex. Gel-Permeation clean-ups are not universally/routinely performed for SW846 8270.

ORGANICS SAMPLE EXTRACTIONS*							
Separatory Funnel Liquid-Liquid	Water	EPA 3510C	24 Hrs	N/A	N/A	N/A	N/A
Continuous Liquid-Liquid Ext.	Water	EPA 3520C	24 Hrs	N/A	N/A	N/A	N/A
Soxhlet Extraction	Solid	EPA 3540C	24 Hrs	N/A	N/A	N/A	N/A
Sonication Extraction	Solid	EPA 3550B	24 Hrs	N/A	N/A	N/A	N/A
Purge and Trap	Both	EPA 5030B	24 Hrs	N/A	N/A	N/A	N/A
Purge and Trap	Both	EPA 5035	24 Hrs	N/A	N/A	N/A	N/A

Sample Extraction costs are included in the full analysis cost. Items listed here are for preparation only requests.

Appendix H

NCR # _____

Paragon Analytics, Inc.
NON-CONFORMANCE REPORT

Initiated by
Date Initiated

Method/Procedure
Work Orders Affected

_____

Clients

SECTION I TYPE OF EVENT

_____ 1. Spike / Surrogate / IS / Tracer Criteria Not Met
_____ 2. Calibration Criteria Not Met (ICAL, ICV, CCV)
_____ 3. Lab Contamination
_____ 4. Method Requirements Not Met (HTV, MB, DER)
_____ 5. Equipment Failure
_____ 6. Deviation from QAP, SOP, Method, DQO
_____ 7. Data resubmission (hc, edd, narrative, letter)
_____ 8. Client complaint
_____ 9. Other _____

SPECIFY:_____

Client Contacted? (Y / N): Name:_____
Date:_____ Time: _____

SECTION II CORRECTIVE ACTION

_____ 1. Submit for Re-Extraction
_____ 2. Recalibrate
_____ 3. Re-analyze
_____ 4. Return to Vendor/Reject
_____ 5. Resubmit data
_____ 6. Retrain
_____ 7. Document in Narrative
_____ 8. Other: _____

Approved by _____

SECTION III REQUEST FOR RE-EXTRACTION

Initial date prepared, Page # _____
Date for Rework, Page # _____
Submitted by _____
Received by _____
Outcome of Re-analysis _____

Approved by _____

SECTION IV DISPOSITION

Use as is **Reject** **Repair**

SIGNATURES:

Approved by _____ Date _____ (Project Manager)
Verification of Disposition _____ Date _____ (Department Manager)
QA Department Approval _____ Date _____ (QA Manager)

COPIES: ____ Project Manager ____ Operations Manager ____ Dept. Manager
Reporting Group (as applicable)

Appendix I

PARAGON EQUIPMENT INVENTORY

Instrument:	Model	Manufacturer:	Ser. #:	Location
Analyzer, Inductively Coupled Plasma (ICP) - axial (trace)	61E	Thermo Jerrell Ash	336490	Inorganics - Metals
Analyzer, Inductively Coupled Plasma (ICP) - radial (conventional)	61	Thermo Jerrell Ash	9483	Inorganics - Metals
Analyzer, Inductively Coupled Plasma (ICP)/MS	Platform	Micromass	WA061	Inorganics - Metals
Analyzer, Mercury	M-6000A	CETAC Technologies, I	079730AST	Inorganics - Metals
Analyzer, QuikChem (Automated NO2/NO3, NH3)	QuikChem 8000	LaChat	(varies with compo	Inorganics - WetChem
Analyzer, Total Organic Carbon (TOC)	14-7045-000	Tekmar-Dohrmann	01-011007	Organics - GC/HPLC
Apparatus, Cyanide Distillation	Midi-10	BSL Co.	MCVA 129726	Inorganics - WetChem
Apparatus, Gel Permeation Cleanup (GPC)	Autoprep 1000	O.I. Corporation	9459SI	Organics - Extractions
Apparatus, Ignitibility	89571	Pensky-Martins	N/A	Organics - Extractions
Auto Sampler (Gas Chromatograph)	7673A	Hewlett Packard	3013A22314	Organics - Fuels
	7673	Hewlett Packard	3120A26649	Organics - GC/HPLC
	7673	Hewlett Packard	3333A35960	Organics - GC/HPLC
	7673	Hewlett Packard	3120A28355	Organics - GC/HPLC
	7673A	Hewlett Packard	2837A10291	Organics - GC/HPLC
	7673A	Hewlett Packard	2923A13890	Organics - GC/HPLC
	7683	Hewlett Packard	US92805616	Organics - GC/MS-SVOCs
	7683	Hewlett Packard	US91304815	Organics - GC/MS-SVOCs
	7673A	Hewlett Packard	US00000603	Organics - GC/MS-SVOCs
Auto Sampler Controller, (Gas Chromatograph)	18594B	Hewlett Packard	3214A28233	Organics - Fuels
	18594B	Hewlett Packard	2929A15028	Organics - GC/HPLC
	18594B	Hewlett Packard	3113A25745	Organics - GC/HPLC
	18594B	Hewlett Packard	3334A33050	Organics - GC/HPLC
	18594B	Hewlett Packard	3332A32883	Organics - GC/HPLC
	18594A	Hewlett Packard	2835A12486	Organics - GC/HPLC
	G1512A	Hewlett Packard	CN00001367	Organics - SVOCs
Autosampler (Gas Chromatograph), Purge & Trap	MPM-16	OI Corporation	5017-9-029	Organics - Fuels
	ALS 2016 / 2032	Tekmar	92051006 / 920480	Organics - Fuels
	MPM-16	OI Corporation	5017-9-028	Organics - GC/MS-VOAs
	ALS 2016	Tekmar	90052027	Organics - GC/MS-VOAs
Autosampler (Gas Chromatograph), Purge & Trap (Archon)	EN61010	Varian	12986	Organics - GC/MS-VOAs
Balance, 2 pan	2 Kg	Ohaus	N/A	RadChem - Grinding Room
Balance, Analytical	AE100	Mettler	N01256	Inorganics - WetChem

PARAGON EQUIPMENT INVENTORY

Instrument:	Model	Manufacturer:	Ser. #:	Location
Balance, Analytical	CT200	Ohaus	CD11318	RadChem - Actinides
	AB104	Mettler	1117501251	RadChem - Actinides
	AE50	Mettler	N19696	RadChem - PreScreening
	AE200	Mettler	N42207	RadChem - Ra/Sr Lab
	AE200	Mettler	N23692	RadChem - Standards Lab
Balance, Laboratory	PT120	Sartorius	20420557	Inorganics - Metals
	BA1105	Sartorius	20404145	Inorganics - Metals
	BB300	Sartorius	90502667	Inorganics - Metals
	B610	Sartorius	40030033	Inorganics - Metals
	A2005	Sartorius	38040253	Organics - Extractions
	B410	Sartorius	10204728	Organics - Extractions
	B410	Sartorius	38060012	Organics - Extractions
	PT120	Sartorius	10720694	Organics - Fuels
	PT120	Sartorius	70204290	Organics - GC/MS-VOAs
	PT120	Sartorius	70605621	RadChem - Low Level Prep
Balance, Toploading	BB300	Mettler	N08587	Inorganics - WetChem
	BB1200	Mettler	M93676	Inorganics - WetChem
	PT1200	Sartorius	20121088	Organics - Extractions
	BB3000	Mettler	N43426	RadChem - Actinides
	BB600	Mettler	N50358	RadChem - Grinding Room
	BD601	Mettler	60183	RadChem - Low Level Prep
	BA4100	Sartorius	30504754	RadChem - PreScreening
	BB600	Mettler	N50359	RadChem - Ra/Sr Lab
	PB3002	Mettler	P00572	RadChem - Ra/Sr Lab
	B3002	Mettler	1117472815	RadChem - Standards Lab
Centrifuge	Z510	Fisher	17910073	Organics - Extractions
	GS-6	Beckman	GA93A12	RadChem - Actinides
	GS-6	Beckman	GA92M22	RadChem - Ra/Sr Lab
	GS-6	Beckman	GA93A15	RadChem - Ra/Sr Lab
Dessicator, 12 shelf (6 total)	Custom Made	TFI	N/A	Labwide
Evaporator, Nitrogen	111	Organomation	7168-10005	Organics - Extractions
Evaporator, Steam	120	Organomation	6031	Organics - Extractions

PARAGON EQUIPMENT INVENTORY

Instrument:	Model	Manufacturer:	Ser. #:	Location
Gas Chromatograph (Dual ECD)	5890 Series II	Hewlett Packard	3310A47805	Organics - GC/HPLC
	5890 Series II	Hewlett Packard	2750018841	Organics - GC/HPLC
	5890	Hewlett Packard	3310A49739	Organics - GC/HPLC
	5890 Series II	Hewlett Packard	3029A30072	Organics - GC/HPLC
Gas Chromatograph (Dual FPD)	5890A	Hewlett Packard	2750A19027	Organics - GC/HPLC
Gas Chromatograph (FID)	5890	Hewlett Packard	3121A35609	Organics - Fuels
Gas Chromatograph (MS) (MS: HP5971A, SN 2745A00096)	5890 Series II	Hewlett Packard	3019A28661	Organics - GC/MS-VOAs
Gas Chromatograph (MS) (MS: HP5972, SN 3188A03493)	5890 Series II	Hewlett Packard	3336A51352	Organics - GC/MS-VOAs
Gas Chromatograph (MS) (MS: HP5972A, SN 3341A00948)	5890 Series II	Hewlett Packard	3203A41045	Organics - GC/MS-VOAs
Gas Chromatograph (MS) (MS: HP5973, SN US80210987)	6890	Hewlett Packard	DE00021933	Organics - GC/MS-SVOCs
Gas Chromatograph (MS) (MS: HP5973, SN US91911895)	6890	Hewlett Packard	US00029580	Organics - GC/MS-SVOCs
Gas Chromatograph (MS) (MS: HP5973, SN US93112015)	6890	Hewlett Packard	US00031554	Organics - GC/MS-SVOCs
Gas Chromatograph (PID/FID)	5890	Hewlett Packard	2443A03716	Organics - Fuels
	5890	Hewlett Packard	2750A18840	Organics - Fuels
Health Physics Equipment - Electra (alpha/beta meter)	NE	Biocron	919/634	Health & Safety Department
	NE Plus	Biocron	134/1998	Health & Safety Department
	NE	Biocron	914/604	Health & Safety Department
	NE	Biocron	456/631	Health & Safety Department
	NE	Biocron	918/628	Health & Safety Department
Health Physics Equipment - Hand & Foot Monitor	LB1043AS	Berthold	80117	Laboratory Hallway (North)
	LB1043AS	Berthold	111115-1310	Laboratory Hallway (South)
Health Physics Equipment - Ludlum (gamma dose rate meter)	Model 19	Ludlum	89429	Health & Safety Department
	Model 3	Ludlum	93958	Health & Safety Department
	Model 19	Ludlum	136517	Health & Safety Department
Heating Mantle (3 total)	EM1000/c	Electrothermal	N/A	Labwide
Heating Mantle, 6 place (8 total)	EME6 100CE	Electrothermal	N/A	Organics - Extractions
	EME6 100CE	Electrothermal	10018620	RadChem - Low Level Prep
High Performance Liquid Chromatograph, Autosampler	700 Wisp	Waters	71S-001504	Organics - GC/HPLC
	1050	Hewlett Packard	3141A01648	Organics - GC/HPLC
High Performance Liquid Chromatograph, Fluorescence Detector (sca	470E	Waters	470-002748	Organics - GC/HPLC
High Performance Liquid Chromatograph, Photodiode Array Detector	1090W	Hewlett Packard	2427A00184	Organics - GC/HPLC
High Performance Liquid Chromatograph, System Controller & Pump	600E	Waters	6PLEPF380 / 600P	Organics - GC/HPLC

PARAGON EQUIPMENT INVENTORY

Instrument:	Model	Manufacturer:	Ser. #:	Location
High Performance Liquid Chromatograph, System Controller & Pump	1050	Hewlett Packard	3114A00835 / 3225	Organics - GC/HPLC
High Performance Liquid Chromatograph, Ultraviolet Detector (variabl	490E	Waters	490-004645	Organics - GC/HPLC
	1050	Hewlett Packard	3225J00991	Organics - GC/HPLC
Hot Plate / Stir Plate (42 total)	various	Thermoline	various	Labwide
Hot Water Bath (3 total)	Precision 185	Precision	N/A	Labwide
Infrared (IR) Spectrophotometer	237B	Perkin Elmer	22985	Inorganics - Metals
	HC-404	Buck Scientific	626	Inorganics - Metals
Infrared (IR) Temperature Gun - Primary	InfraPro 2	Oakton	#2SCIR1201	Sample Control
Infrared (IR) Temperature Gun - RadChem	MiniTemp	Raytek	RCIRU39641-10	RadChem - Actinides
Infrared (IR) Temperature Gun - Secondary	Raynger PM30	Raytek	SC-PM30/T2940-3	Sample Control
Ion Chromatograph (IC) - Anions Analysis	DX-120	Dionex	99060762	Inorganics - Wet Chem
Ion Chromatograph (IC) - Perchlorate Analysis	DX-120	Dionex	98070245	Inorganics - Wet Chem
Kiln	X-31-910	Kress	8811	Organics - Extractions
	A-31-945	Kress	9008	Organics - Extractions
Meter, Conductivity	23226-523	VWR	A22036	Inorganics - Wet Chem
	604	VWR	9003108	Organics - Extractions
Meter, pH	Orion 501	Orion	53783	Inorganics - Metals
	550	Accumet	C0000643	Inorganics - Metals
	320	Corning	C5961	Inorganics - Wet Chem
Mill, Ball	3-Tier	US Stoneware	BP-93006	RadChem - Grinding Room
Mill, Grinding	A-10	Tekmar	706495	RadChem - Grinding Room
	A-10	Tekmar	677399	RadChem - Grinding Room
	A-10	Tekmar	683789	RadChem - Grinding Room
Muffle Furnance (used at 600 C)	30400	Thermolyne		RadChem - Low Level Prep
	30400	Thermolyne		Waste Characterization Lab
	30400	Thermolyne		Waste Characterization Lab
Oven, Drying	VWR	VWR		Inorganics - Wet Chem
	VWR	VWR		RadChem - Grinding Room
	VWR	VWR		RadChem - Grinding Room
	VWR	VWR		RadChem - Ra/Sr Lab
Oven, Drying (for Percent Moisture determinations)	VWR	VWR		Organics - Extractions
Oven, Drying (for TDS analysis)	VWR	VWR		Inorganics - Wet Chem

PARAGON EQUIPMENT INVENTORY

Instrument:	Model	Manufacturer:	Ser. #:	Location
Oven, Drying (for TS and TSS analysis)	VWR	VWR		Inorganics - Wet Chem
Oven, Drying (Glassware)	VWR	VWR		Organics - Extractions
	VWR	VWR		Organics - Fuels
	VWR	VWR		Organics - GC/MS-VOAs
	VWR	VWR		RadChem - Low Level Prep
Radiological - Alpha Scintillator	Model 19	Ludlum	89429	RadChem - Instrumentation
Radiological - Alpha Spectrometer (96 total)	Ultra 600 mm2	Ortec	(per detector)	RadChem - Instrumentation
Radiological - Gamma Spectrometer (4 each; 12 total)	GEM-100220-P	Ortec	(per detector)	RadChem - Instrumentation
	GEM-25185-P	Ortec	(per detector)	RadChem - Instrumentation
	GEM-25190-P	Ortec	(per detector)	RadChem - Instrumentation
Radiological - Gas Flow Proportional Counter	LB-4110	Tennelec	43727	RadChem - Instrumentation
	LB-4110	Tennelec	CR (13923)	RadChem - Instrumentation
	LB-5100	Tennelec	W-GWD (13923)	RadChem - PreScreening
	LB-5100	Tennelec	13923	RadChem - PreScreening
Radiological - Kinetic Phosphorescence Analyzer (KPA)	KPA-11	Chemchek	93-45050052	RadChem - Ra/Sr Lab
Radiological - Liquid Scintillation Counter	LS 6500	Beckman	7068426	RadChem - Instrumentation
	LS 6000TA	Beckman	598860	RadChem - Instrumentation
Radiological - Lucas Cell Counters (3 total)	182/1000	Ludlum		RadChem - Instrumentation
Radiological, Health Physics Monitor - G-M (detector)	3	Ludlum	93958	Health & Safety Department
	44-7	Ludlum	91574	Health & Safety Department
Radiological, Health Physics Monitor - Pancake G-M (detector)	44-9	Ludlum	91976	Health & Safety Department
Radiological, Health Physics Monitor - Shielded G-M (detector)	44-40	Ludlum	66899	Health & Safety Department
Riffle Splitter	SP-3	Gibson	N/A	RadChem - Grinding Room
Rotary Tumbler	N/A	Associated Design & M	N/A	Organics - Extractions
Sample Concentrator (Gas Chromatograph) , Purge & Trap	4460	OI Corporation	3572-8-282	Organics - Fuels
	LSC 2000	Tekmar	91235008	Organics - Fuels
	4560	OI Corporation	J609460598	Organics - GC/MS-VOAs
	LSC 2000	Tekmar	90080005	Organics - GC/MS-VOAs
	4560	OI Corporation	J426460287	Organics - GC/MS-VOAs
Sample Heater (Gas Chromatograph), Purge & Trap	MHC-16	OI Corporation	D424464013	Organics - Fuels
	2016 Heater Acces	Tekmar	88180007 / 902880	Organics - Fuels
	MHC-16	OI Corporation	90-076	Organics - GC/MS-VOAs

PARAGON EQUIPMENT INVENTORY

Instrument:	Model	Manufacturer:	Ser. #:	Location
Sample Heater (Gas Chromatograph), Purge & Trap	2016 Heater Acces	Tekmar	39069004	Organics - GC/MS-VOAs
Sonicator	450	Branson	BI80341	Organics - Extractions
	450	Branson	BI00255	Organics - Extractions
Sonicator, Double	BC600-2	Ultrasonics	15282E	Organics - Extractions
Sonicator, Ultrasonic Cleaner	3200	Branson	B3200R-1	Organics - Extractions
Spectrophotometer	Model 340	Sequoia-Turner	905970923742	Inorganics - Wet Chem
Steam Generator	682383.01	Emerson	1839-11508	Organics - Extractions
Vacuum Pump	1HAB-25-M100X	Gast	1291	Labwide
Vortex Mixer	58223-1	Scientific Products	042524	Labwide
	58223-1	Scientific Products	024839	Organics - Extractions

Appendix J

Paragon Analytics, Inc.

SOP Table of Contents

SOP	Active Date	Title	Notes	Author
001-049 SAFETY/WASTE				
001 R5	4/7/03	Treatment of Quarantined Soils, Aqueous Extracts, and Solid Residues and Cleaning Containers Used To Store Quarantined Sample Materials	note change of title	ESW
002 R4	3/7/03	Laboratory Fume Hood Velocity Monitoring		CRO
003 R3	8/9/02	Management of Nonradioactive Hazardous Waste		CRO
007 R4	2/13/02	Initial Check of Portable Health Physics Survey Instrumentation		ESW
008 R6	6/28/02	Initial Receipt of Radioactive Samples and External Radiation Exposure Rate and Removeable Radioactive Material Contamination Survey of Incoming Radioactive Material Packages		ESW
009 R5	4/7/03	Incoming Radioactive Material Packages That Exceed Removable Radioactive Material Contamination Limits		ESW
010 R2	9/20/02	Survey of Laboratory Areas for Radioactive Contamination	note change of title	ESW
011 R4	4/7/03	Purchase of Radioactive Materials		ESW
012 R3	9/20/02	Laboratory Personnel Contamination Surveys		ESW
013 R4	4/7/03	Calibration of Portable Health Physics Survey Instrumentation		ESW
015 R4	3/25/03	Disposal of Radioactive Waste		CRO
016 R4	4/9/02	Electron Capture Detector Leak Tests		ESW
017 R3	3/7/03	Effluent Monitoring and Release		CRO
023 R3	3/7/03	Secondary Containment of Sample Containers	note change of title	CRO
024 R2	4/7/03	Disposal of Short Lived Radionuclides by Decay in Storage		ESW
026 R0	8/27/02	Radioactive Materials Inventory; LIMS Tracking	draft SOP, ESW writing 08/27/02	ESW
050-099 DATA REPORTING				
052 R5	9/20/02	Data Package Review Procedures for Stable Chemistry Methods	being revised by DAP 06/02; note change of title	DAP
069 R5	8/15/02	Archiving Workorder Folders		DAS
100-199 ADMINISTRATION				
103 R3	4/29/02	Subcontract Laboratory Qualifications		DBH
127 R6	2/14/03	Procurement Document Control		DBH
128 R7	2/14/03	Evaluation of Purchased Materials and Services		DBH
132 R3	4/29/02	Building Security		DBH
143 R2	4/17/02	New Employee Quality Assurance Orientation and Training		DAS

SOP	Active Date	Title	Notes	Author
200-299 SAMPLE CONTROL				
201 R5	2/10/03	Laboratory Information Management System (LIMS) Entry of Sample Receipt Information and Distribution of Work Orders	note change of title	CRO
202 R8	3/25/03	Login and Distribution of Samples		CRO
205 R5	2/10/03	Preparation of Bottle Orders, Shipping Sample Kits, and Maintaining Inventory of Bottles, Preservatives, and Labels	note change of title	CRO
207 R5	2/10/03	Subcontracted Work Instructions		CRO
210 R4	3/7/03	Use and Calibration Verification of Infrared Temperature Guns		CRO
215 R0	8/26/02	Preparation of Samples For Prescreening by The Sample Control Department	draft; taken from SOP 703; emphasis on SC respon.; transferred to CRO 06/04/02 (703R5.doc)	CRO
300-399 GENERAL CHEMISTRY				
300 R9	3/14/02	Standards Preparation, Documentation, and Expiration	extend due date to coincide w/ database for DAP; need to add database language	DBH
303 R7	4/7/03	Control and Format of Laboratory Logbooks		DBH
305 R7	4/17/02	Balance Calibration, Verification, and Utilization		DAS
306 R2	8/19/02	The Use of Significant Figures and Rules For Rounding Numbers		DBH
317 R6	3/28/03	Removing and Returning Equipment From Service		DAS
318 R4	4/23/02	Internal Chain-of-Custody		CRO
319 R5	3/14/02	Generation and Monitoring of Deionized Water for Laboratory Use		DBH
320 R4	4/17/02	Monitoring and Recording of Oven Temperatures	note change of title	DAS
321 R3	4/29/02	Pipette Calibration		DBH
325 R4	4/17/02	Monitoring Sample Cooler Temperature Using A Seven-Day Chart Recorder		DAS
326 R4	4/17/02	Monitoring and Recording Refrigerator and Freezer Temperatures	note change of title	DAS
328 R3	4/7/03	Review of Logbooks		DBH
329 R2	11/12/99	Method Demonstration Procedures: Method Detection Limit (MDL) Studies, Initial Precision and Recovery (IPR) Studies, Instrument Detection Limit (IDL) Studies, and Control Limits	revise after Norfolk Conf / EPA OW MDL revision	DBH
332 R3	8/19/02	Archiving Records and Retrieval of Archived Information		DAS
334 R4	4/7/03	Glassware Cleaning Procedures and Maintenance of Glassware Used in The Organics and Inorganics Departments		DBH
400-499 GC/HPLC and FUELS				
400 R8	3/25/03	Polynuclear Aromatic Hydrocarbons by HPLC - Method SW 8310 and EPA 610		MDB
402 R9	3/25/03	Determination of Organochlorine Pesticides by Gas Chromatography - Methods SW 8081A and EPA 608	correx to PAG 05/23/02; REV7 sent to EMCAP 08/31/02; REV7 = REV8; REV7 not used by lab	MDB

SOP	Active Date	Title	Notes	Author
404 R10	3/28/03	Analysis of Nitroaromatics and Nitroamines (Explosives Residues) by HPLC -- Method SW 8330		MDB
406 R9	3/25/03	Total Extractable Petroleum Hydrocarbons (TEPH) - by Gas Chromatography -- Method SW 8015B and CAL-LUFT	DRO	MDB
407 R5	11/22/02	Organophosphorus Compounds by Gas Chromatography - Methods SW 8141A and EPA 614	note change of title; we added EPA 614 info	MDB
408 R5	3/28/03	Analysis of Nitroglycerin and/or PETN by HPLC -- Method SW 8332		MDB
409 R2	3/25/03	Analysis of Polychlorinated Biphenyls (PCBs) by Gas Chromatography -- Methods SW 8082 and EPA 608		MDB
424 R8	12/9/02	Determination of Aromatic Volatile Organics by Gas Chromatography - Methods SW 8021B and EPA 602		MDB
425 R9	3/25/03	Analysis of Total Volatile Petroleum Hydrocarbon (TVPH) Gasoline Range Organics (GRO) by Gas Chromatography -- Methods SW 8015B and CAL-LUFT	GRO	MDB
434 R5	8/5/02	Analysis of Chlorinated Herbicides by Gas Chromatography - Methods SW 8151A, EPA 615, and EPA 515.1		MDB
438 R5	3/25/03	Microextraction and Analysis of EDB and DBCP in Water by Gas Chromatography - Methods EPA 504.1 and SW8011		MDB
443 R0	8/5/02	Microextraction and Analysis of Organohalide Pesticides in Water by Gas Chromatography -- Method EPA 505		MDB
444 R0	10/20/02	Extraction and Determination of Glycols by Gas Chromatography -- Method SW 8015B	DRAFT; PAG writing for Shaw; spl expected end of October 2002	MDB
500-599 GCMS				
506 R12	6/25/02	Semivolatile Organic Compounds by Gas Chromatography / Mass Spectrometry, Capillary Column Technique - Methods SW 8270C and EPA 625		MDB
511 R5	3/17/03	Volatiles Reagent Blank Water Preparation and Analysis		MDB
512 R7	3/17/03	Refrigerator Blanks		MDB
525 R8	10/28/02	Determination of Volatile Organic Compounds by Gas Chromatography / Mass Spectrometry -- Methods SW 8260B and EPA 624		MDB
526 R4	2/10/03	Determination of Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) -- Method 524.2		MDB
600-699 EXTRACTIONS				
603 R7	3/25/03	Extraction of Hydrocarbons From Soil and Water Samples For Analysis by Method SW 8015B		PAG
604 R5	4/10/02	Silica Gel Cleanup -- SW Method 3630C	note change of title	PAG
607 R6	12/5/02	Extract Concentration Using Kuderna-Danish Apparatus	note change of title	PAG
608 R9	1/7/03	Method for Toxicity Characteristic Leaching Procedure (TCLP) Extraction of Wastes for the Analysis of Volatile Organic Compounds by Zero Headspace Extraction (ZHE) - Method SW 1311	tclp zhe	PAG
609 R9	4/4/03	Method for Toxicity Characteristic Leaching Procedure (TCLP) of Wastes and Soils For The Analysis of Metals and Semivolatile Organics - Method SW 1311		PAG
617 R9	12/5/02	Continuous Liquid/Liquid Extraction -- Method SW 3520C		PAG
622 R4	3/17/03	Waste Dilution Extraction -- Method SW 3580A	note change of title	PAG
625 R7	12/5/02	Soxhlet Extraction -- Method SW 3540C		PAG
626 R6	12/5/02	Separatory Funnel Liquid-Liquid Extraction -- Method SW 3510C		PAG
629 R7	3/25/03	Determination of Ignitability by The Pensky-Martens Closed-Cup Tester -- Method SW 1010		PAG

SOP	Active Date	Title	Notes	Author
634 R3	4/10/02	Sulfur Cleanup -- SW Method 3660B	note change of title	PAG
637 R5	12/5/02	Concentration and Solvent Exchange by The Nitrogen Blowdown Technique	note change of title	PAG
640 R4	9/19/02	Extraction and Gravimetric Determination of Hexane Extractable Material in Solids -- Method SW 9071B	Method 9070 retired/withdrawn by EPA; see EPA 1664, Pub. No. EPA-821-R-98-002	PAG
641 R6	4/7/03	Gel Permeation Chromatography (GPC) Cleanup -- SW Method 3640A		PAG
642 R5	3/25/03	Gravimetric Determination of Percent Moisture For Solid Matrices		PAG
648 R4	3/25/03	Florisil Cleanup -- SW Method 3620B	2,4,5-tcp; qc limits; 1 g cartridge -- see SW3620B	PAG
651 R6	3/17/03	Sulfuric Acid Cleanup -- Method SW 3665A		PAG
658 R5	3/17/03	Paint Filter Liquids Test -- SW Method 9095A		PAG
663 R4	3/25/03	Monitoring TCLP Tumbler Revolutions and Room Temperature	note change of title	PAG
664 R3	8/5/02	Extraction and Derivatization of Samples For Herbicide Analysis by Gas Chromatography Methods -- SW 8151A, EPA 615, and EPA 515.1		PAG
665 R4	3/17/03	Extraction of Explosives from Water and Soil -- Methods SW 8330 and SW 8332	note change of title	PAG
666 R3	4/23/02	Waste Extraction Test (Cal-WET) For The Analysis of Metals and Semivolatile Organic Compounds	note change of title	PAG
668 R1	8/23/02	Synthetic Precipitation Leaching Procedure (SPLP) For The Analysis of Metals and Semivolatile Organics -- Method SW 1312		PAG
669 R1	9/19/02	Method for Synthetic Precipitation Leaching Procedure (SPLP) Extraction of Samples For The Analysis of Volatile Organic Compounds by Zero Headspace Extraction (ZHE) -- Method SW 1312		PAG
670 R8	3/17/03	Analysis of Total Organic Carbon By Methods EPA 415.1, SW 9060, and SM 5310 C	was SOP 803; reissued as SOP 670; note change of title; set 6 mo. Review date (new instr.)	PAG
671 R3	12/9/02	Determination of n-Hexane Extractable Material (HEM) and Silica Gel Treated Hexane Extractable Material (SGT-HEM) by Extraction and Gravimetry For Aqueous Samples -- Methods EPA 1664 and SW 9070A	formerly SOP 1115; SW9070 A directs us to EPA 1664 for method procedure for aq matrix	PAG
672 R0	1/8/03	Extraction and Gravimetric Determination of Lipids in Tissues		PAG
700-799		**RADIOCHEMISTRY (I=instrumentation; R=routine; A=actinides)**		
700 R8	4/4/03	Preparation of Environmental And Drinking Water Samples For Tritium Analysis -- Method EPA 906.0	R	DCB
702 R16	4/4/03	Preparation of Gross Alpha and Gross Beta in Environmental Matrices -- EPA Method 900.0 and SW-846 Method 9310	I; note change of title	DCB
703 R5	4/29/02	Preparation of Samples for Prescreening	R	DCB
704 R6	4/7/03	Analysis of Tritium and Other Beta-Emitting Nuclides by Liquid Scintillation Counting -- Method EPA 906.0	reviewed by DCB 03/14/02 -- no changes; ADD QC TABLE	DCB
707 R7	4/7/03	Radiostrontium in Water, Soil, Filters, and Vegetation	RI	DCB

SOP	Active Date	Title	Notes	Author
708 R3	9/20/02	Determination of Minimum Detectable Concentrations for Radioanalytical Methods	correx for Rev 3 to DCB 05/13/02; note change of title	DCB
709 R5	9/20/02	Verification and Validation of Radioanalytical Software	I	DCB
711 R5	3/28/03	Preparation of Water and Solid Samples for the Analysis of Polonium-210 -- EML Procedure Po-01	A; note change of title	DCB
712 R11	12/5/02	Determination of Total Alpha-Emitting Radium Isotopes in Drinking Water -- EPA Method 903.0 and SW-846 Method 9315	I?; note change of title	DCB
713 R8	4/7/03	Analysis of Gamma Emitting Radionuclides by Gamma Spectrometry -- Method EPA 901.1	I; includes SEEKER software; ADD QC TABLE	DCB
714 R8	1/6/03	Analysis of Alpha Emitting Radionuclides by Alpha Spectrometry	I; QC table added	DCB
715 R13	4/4/03	Review of Radioanalysis Data	I	DCB
720 R5	3/28/03	Glassware Cleaning Procedures for the Radiochemistry Department	RA	DCB
721 R10	3/28/03	Soil Preparation for Radiochemistry Analyses	RA	DCB
724 R8	4/7/03	Analysis of Alpha and Beta Emitting Radionuclides by Gas Flow Proportional Counter -- EPA Method 900.0	I; ADD QC TABLE	DCB
726 R3	4/4/03	Determination of Lead -210 in Soils, Sediments, and Waters	I	DCB
733 R4	3/28/03	Checking the pH of Aqueous Samples in the Radiochemistry Department	RA	DCB
734 R9	9/20/02	Standards and Reagent Preparation in the Radiochemistry Department		DCB
737 R3	4/7/03	Preparation and Determination of Nickel-63 in Water and Soil Samples	R	DCB
739 R6	4/7/03	Preparation of Samples for Gamma Spectroscopy Analysis	A	DCB
743 R5	4/7/03	Estimating Total Propagated Uncertainty for Radiometric Analyses		DCB
746 R6	4/7/03	Determination of Radium-228 According to EPA Method 904.0 or SW-946 Method 9320	R; ADD QC TABLE; ADD EPA 904.0 RQMT TO USE 10N NaOH TO DISSOLVE PPT (VS. EDTA)	DCB
748 R1	4/7/03	Preparation of Water and Solid Samples For The Analysis of Fe-55 by Eichrom Method FEW01	A?	DCB
751 R0	11/20/02	Actinides -- Americium/Curium Separation -- Purification by TRU and TEVA Spec Column	new SOP, written by NC;	DCB
753 R2	4/4/03	Determination of Radioactive Iodine in Environmental Samples -- EPA Method 902.0	A;	DCB
754 R3	4/7/03	Preparation of Soil Samples For Tritium Analysis by Microwave Oven	R	DCB
755 R6	4/4/03	Determination of Technetium-99 in Solid and Water/Aqueous Samples	IA; note change of title	DCB
756 R5	11/20/02	Determination of Technetium-99 in Solid Samples	IA	DCB
760 R1	12/30/02	Preparation of Solid Samples by Potassium Pyrosulfate Fusion	new method, developed for NFS	DCB
761 R0	1/8/03	Determination of Gross Alpha by GFP -- Method 900.0M -- 48 h TAT -- State of NJ	gross alpha only; EPA 900.0M; 48 h TAT; for State of NJ	DCB
765 R3	4/7/03	Separation and Analysis of Neptunium in Environmental Matrices	IA	DCB
766 R4	3/28/03	Tracing and Spike Witnessing Actinides Samples	IRA	DCB
767 R5	4/4/03	Sample Preparation: Filter Leaching	RA	DCB

SOP	Active Date	Title	Notes	Author
772 R3	4/7/03	Preparation of Water and Soil Samples for the Analysis of Carbon-14 Using Potassium Permanganate -- US EPA EERF Method C-01	R; note change of title	DCB
773 R8	4/7/03	Total Dissolution of Solids for the Radiochemical Determination of Actinides and Other Non-Volatile Radionuclides.	A	DCB
776 R8	4/4/03	Preparation of Water Samples for Actinides and Total Uranium Determination by EPA Method 908.0 (modified)	A	DCB
777 R7	4/7/03	Actinides - Thorium and Plutonium Sequential Separation by Anion Exchange	A	DCB
778 R8	11/20/02	Actinides - Uranium, Plutonium, and Americium/Curium (Partial) Sequential Separation by Ion Exchange	A	DCB
780 R6	4/7/03	Actinides - Americium/Curium Separation -- Purification by Methanolic Anion Exchange and TEVA Spec Column	A	DCB
783 R4	4/7/03	Radium-226 in Aqueous and Soil Matrices -- Radon Emanation Technique--Method EPA 903.1	R; ADD QC TABLE	DCB
785 R0	3/12/03	Total Activity in Environmental Matrices	DRAFT 03/12/03; written by NC	DCB
786 R2	4/29/02	Gross Alpha in Water by Coprecipitation Method -- SM 7110C	IR	DCB
791 R1	4/7/03	Preparation of Silica Gel Air Filter Samples For Tritium Analysis	written for ESH-17; edit title by omitting the words "Air Filter"	DCB
798 R1	4/29/02	Preparation and Verification of Standards in The Actinides Laboratory	A	DCB
799 R1	4/29/02	Determination of Radon-222 in Water Samples by Liquid Scintillation Counting by Method SM 7500-Rn B and ASTM Method D 5072-92	IR	DCB
800-899 METALS				
805 R4	4/7/03	Determination of Metals by Inductively Coupled Plasma Emission Spectroscopy - EPA Method 200.7 (Conventional/Radial ICP)	radial, 200.7	SMW
806 R9	12/5/02	Digestion of Waters, Soils, and Wastes for Metals Analysis -- Methods SW 3005A, SW 3010a, SW 3050B, EPA 200.2, EPA 200.7, and CLP SOW ILMO3.0 and ILMO4.0		SMW
807 R8	4/7/03	Determination of Metals by Inductively Coupled Plasma Emission Spectroscopy - Method EPA 200.7 (Trace ICP)	note change of title; EPA 200.7, trace icp only	SMW
812 R9	3/28/03	Determination of Mercury by Cold Vapor Atomic Absorption Spectroscopy -- Methods SW7470A, SW7471A, EPA 245.1, ILMO3.0, ILMO4.0	need to edit to reflect Cetac instrumentation	SMW
827 R0	8/26/02	Determination of Elements by Inductively Coupled Plasma Mass Spectrometry -- Method EPA 200.8 , SW 6020A, and CLPILM05.2	new sop, written by REM; set revision date for 3 mo.	REM
834 R2	4/7/03	Determination of Metals by Inductively Coupled Plasma Emission Spectroscopy -- Method SW 6010B (Trace ICP)	SW6010, trace icp	SMW
835 R1	4/7/03	Determination of Metals by Inductively Coupled Plasma Emission Spectroscopy -- Method SW 6010B (Conventional/Radial ICP)	icp radial; 6010	SMW
836 R0	4/29/02	Determination of Metals by Inductively Coupled Plasma Emission Spectroscopy -- CLP SOW ILMO4.0 (Conventional/radial ICP)	clp radial	SMW
837 R0	4/29/02	Determination of Metals by Inductively Coupled Plasma Emission Spectroscopy -- CLP SOW ILMO4.0 (Trace ICP)	clp trace	SMW
900-999 QUALITY ASSURANCE				
901 R4	1/6/03	Verifying Weights	formerly SOP 324 (re-issued 01/06/03).	DAS
923 R4	4/17/02	Standardization of Thermometers		DAS
926 R6	4/17/02	Review, Revision, and Distribution of Controlled Documents		DBH
928 R6	4/7/03	Issuing and Tracking of Non-Conformance Reports		DBH

SOP	Active Date	Title	Notes	Author
929 R3	4/7/03	Distribution of Standard Operating Procedures and Surveillance of Standard Operating Procedure Manuals		DBH
937 R4	4/17/02	Internal Laboratory Audits and Surveillances	note change of title	DAS
938 R2	2/10/03	Verification of Infrared Temperature Guns		DAS
939 R1	4/7/03	Manual Re-Integration Policy and Procedures		DBH
940 R2	2/10/03	Verification of Wheel Chart Temperature Recorders	formerly SOP 335. Reissued as SOP 940 REV 2 02/10/03.	DAS

1100-1199 WET CHEMISTRY

1100 R6	3/7/03	Determination of Total Suspended Solids (TSS or Total Non-Filterable Residue) -- Methods EPA 160.2 and SM 2540D		EAL
1101 R6	3/17/03	Total Solids, Total Dissolved Solids (TDS or Total Filterable Residue), and Total Fixed and Volatile Solids -- Methods EPA 160.3, EPA 160.1, and EPA 160.4 and Methods SM 2540B, SM2540C, and SM 2540E	note change of title	EAL
1104 R2	12/6/02	Potentiometric Determnation of (Simple) Fluoride in Water and Soil Using an Ion Selective Electrode -- Methods EPA 340.2, SW9214, and SM-4500-F~C		EAL
1106 R3	12/23/02	Bicarbonate, Carbonate, Hydroxide, and Total Alkalinity by Titration -- Methods EPA 310.1 and SM 2320B		EAL
1107 R4	3/7/03	Chloride by Titration with Mercuric Nitrate -- Methods EPA 325.3 and SM 4500-Cl- C	note change of title	EAL
1110 R5	12/23/02	Determination of Total and Amenable Cyanide (Distillation) - - Methods SW 9010B, SW 9013, SW 9014, EPA 335.1, EPA 335.2, and CLP Inorganic SOW (ILMO4.0); Determination of Weak and Dissociable Cyanide -- Method SM 4500-CN I	note change of title	EAL
1112 R2	8/15/02	Determination of Reactive Cyanide and Sulfide -- EPA Method SW-846, Chapter 7		EAL
1113 R6	12/16/02	Determination of Inorganic Anions by Ion Chromatography -- Methods EPA 300.0 and SW 9056	6 mo. Exp for MDL, LCR (EPA 300.0)	EAL
1117 R1	4/29/02	Total Organic Carbon in Soil by Rapid Dicromate Oxidation -- MSA Walkley-Black Method		EAL
1119 R3	3/17/03	Determination of Total Phosphorous and Ortho-Phosphate in Water -- Methods EPA 365.2 and SM 4500-P B(5) and E	note change of title	EAL
1120 R2	2/10/03	Determination of Total Sulfides in Water -- Methods EPA 376.1 and SM 4500-S2F	note change of title	EAL
1121 R2	10/17/02	Determination of Hexavalent Chromium in Solid Matrices Using Alkaline Digestion (Method SW 3060A) and Analysis by Method 7196A		EAL
1122 R2	10/17/02	Determination of Hexavalent Chromium by Methods EPA 218.4, SW 7196A, SM 3500-Cr-B		EAL
1123 R1	8/23/02	Determination of Nitrocellulose in Waters and Soils		EAL
1125 R1	8/23/02	Determination of Perchlorate in Water Using Ion Chromatography -- Methods EPA 314.0 and SW 9058		EAL
1126 R13	2/10/03	Determination of pH by Electrometric Meaurement -- Methods EPA 150.1, SW 9040B, SW 9045C, and SM 4500-H+ B	formerly SOP 620. REV 10 retired 01/23/02; reissued as SOP 1126	EAL
1127 R4	3/17/03	Determination of Nitrogen as Nitrate Plus Nitrite, Nitrite, and Nitrate in Environmental Water and Soil Samples Using a Colorimetric, Automated, Cadmium Reduction Procedure -- Methods EPA 353.2, SM 4500-NO3-I, and Quikchem Method 10-107-04-1-C		EAL
1128 R6	2/10/03	Determination of Specific Conductance -- EPA Methods 120.1, SW 9050A, and SM 2510B	previously numbered as SOP 643	EAL
1129 R3	3/17/03	Determination of Ammonia Using An Automated Phenolate Procedure -- Methods EPA 350.1, SM 4500 NH3-NH, and Quikchem Method 10-107-06-1-C	Lachat	EAL

SOP	Active Date	Title	Notes	Author
1130 R1	12/13/02	Determination of Nitrogen, Nitrite (as NO2-N) in Water And Soil by Colorimetric Spectrophotometric Determination -- EPA Method 354.1 and SM 4500-NO2 -B		EAL
1400-1499 INFORMATIONS SYSTEMS MANAGEMENT				
1400 R4	3/28/03	Process Software Validation		MSR
1401 R3	3/28/03	Computer and LIMS Backup and Restoration Protocols		MSR
1402 R3	3/28/03	Laboratory Information Management System (LIMS) Version Control		MSR
-				
CHP R9	8/28/02	Chemical Hygiene Plan		ESW
ECP R3	3/28/03	Emergency and Contingency Plan		ESW
ExamEW	3/28/03	Annual RCRA (ECP) and Waste Management Training Exam	entry for 2003	CRO
ExamRPA	3/28/03	Annual Radiation Safety Training Exam	entry for 2003	CRO
FORM159	2/7/03	Information Systems Policy Statement	annual training; post throughout lab	DBH
FORM162	2/7/03	Ethical Behavior Policy Letter	annual training; post throughout lab	DBH
FORM921	2/7/03	Whistleblower Protection Policy	annual training; post information throughout lab	DBH
Form999	2/13/03	Good Laboratory Practices	annual training; post throughout lab	DBH
LQAP R7	4/4/03	Laboratory Quality Assurance Plan	procedural details omitted (e.g., qc charts, prev. maint.) in REV 7	DBH
RPP R2	4/3/03	Radiation Protection Plan		ESW
WMP R3	3/28/03	Waste Management Plan		CRO

Appendix K

State Certification and Analyte Lists

Our state certifications and analyte lists follow. Please note that we are currently applying for certification in the States of Florida and New York.

DEPARTMENT OF THE NAVY

NAVAL FACILITIES ENGINEERING SERVICE CENTER
1100 23RD AVE
PORT HUENEME CA 93043-4370

IN REPLY REFER TO:

NFESC 413
April 22, 2002

Ms. Deborah Henderer
Quality Assurance Officer
Paragon Analytics, Inc.
225 Commerce Drive
Fort Collins, CO 80524

Dear Ms. Henderer,

This correspondence addresses the status of Paragon Analytics, Inc. (Paragon) of Fort Collins, CO in the Navy Installation Restoration (IR) Quality Assurance (QA) Program as administered by the Naval Facilities Engineering Service Center (NFESC).

Your laboratory is accepted to perform sample analysis for the methods listed in Table 1. The period of acceptance expires April 15, 2004. This acceptance does not guarantee the delivery of any analytical samples. Acceptance is facility specific and can not be transferred to an affiliated or subcontract laboratory.

Acceptance is based on the last assessment executed under the auspices of the Navy IR QA Program. The period of acceptance is consistent with the evaluation cycle identified by the Navy IR QA Program. The assessment included an onsite inspection performed on October 22-24 2001, and the review of proficiency testing (PT) results.

The Navy reserves the right to conduct additional laboratory assessments or to suspend or revoke acceptance status for any or all of the listed parameters if deemed necessary.

Table 1

Method[1]	Parameter	Matrix
9056	Anions	Water
8021B	Aromatic Hydrocarbons	Water
7196A	Chromium Hexavalent	Water/Solid
9010B/9012A	Cyanide	Water
8011	Ethylene Dibromide	Water/Solid
8330/8332	Explosives	Water/Solid
8151A	Herbicides	Water/Solid
ILM 4.0	Inorganics	Water/Solid
8081A	Pesticides	Water/Solid

[1] The assessment included a review of Toxicity Characteristic Leaching Procedure (TCLP; EPA Method 1311).

8082	Polychlorinated Biphenyls	Water/Solids
8310	Polynuclear Aromatic Hydrocarbons	Water/Solid
8270C	Semivolatile Organics	Water/Solid
6000/7000 ILM 4.0	TAL Metals: Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, and Zinc	Water/Solid
8015B CA LUFT	TPH – DRO/GRO	Water/Solids
415.1	Total Organic Carbon	Water
8260B	Volatile Organics	Water/Solid

Acceptance for use for parameters not identified on the table will be determined by Navy project personnel.

The laboratory should notify NFESC if there are parameters not presented on Table 1 that the laboratory expects to run on a routine basis in support of Navy installation restoration projects. In these circumstances the laboratory's capability to run the tests will be reviewed and the table will be modified accordingly.

Questions concerning the information provided should be directed to the NFESC IR QA Program coordinator, Ms. Patricia Moreno at (805) 982-1659, or via email at morenop@nfesc.navy.mil.

Sincerely,

Douglas A. Zillmer
Supervisor, Consultation/Information
Management Branch

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS
HTRW CENTER OF EXPERTISE
12565 WEST CENTER ROAD
OMAHA, NEBRASKA 68144-3869

REPLY TO
ATTENTION OF:

October 10, 2002

Hazardous, Toxic and Radioactive Waste
Center of Expertise

Paragon Analytics, Inc.
ATTN: Debra Henderer
225 Commerce Drive
Fort Collins, CO 80524

Gentlemen:

This correspondence addresses the recent evaluation of Paragon Analytics, Inc. of Fort Collins, CO, by the U.S. Army Corps of Engineers (USACE) for chemical analysis in support of the USACE Hazardous, Toxic and Radioactive Waste Program.

Your laboratory is now validated for the parameters listed below:

METHOD	PARAMETERS	MATRIX[1]
9056	Anions[4]	Water[2]
9056M	Anions[4]	Soil[2]
8021B	Aromatic Volatile Organics	Water[2]
8021B	Aromatic Volatile Organics	Solids[2]
9010B/9012A	Cyanide	Water[2]
9013/9012A	Cyanide	Solids[2]
8330	Explosives	Water[2]
8330	Explosives	Solids[2]
8151A	Herbicides	Water[2]
8151A	Herbicides	Solids[2]
7196A	Hexavalent Chromium	Water[2]
3060A/7196A	Hexavalent Chromium	Solids[2]
8081A	Organochlorine Pesticides	Water[2]
8081A	Organochlorine Pesticides	Solids[2]
8082	Polychlorinated Biphenyls	Water[2]
8082	Polychlorinated Biphenyls	Solids[2]

8310	Polynuclear Aromatic Hydrocarbons	Water[2]
8310	Polynuclear Aromatic Hydrocarbons	Solids[2]
8270C	Semivolatile Organics	Water[2]
8270C	Semivolatile Organics	Solids[2]
6010B/7000A	TAL Metals[3]	Water[2]
6010B/7000A	TAL Metals[3]	Solids[2]
9060	Total Organic Carbon	Water[2]
Walkley-Black	Total Organic Carbon[5]	Soil
Mod 8015	TPH - GRO/DRO	Water[2]
Mod 8015	TPH - GRO/DRO	Solids[2]
8260B	Volatile Organics	Water[2]
8260B	Volatile Organics	Solids[2]

Remarks:

1) 'Solids' includes soils, sediments, and solid waste.

2) The laboratory has successfully analyzed a proficiency testing (PT) sample for this method/matrix.

3) TAL Metals: Aluminum, antimony, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, selenium, silver, sodium, thallium, vanadium, and zinc.

4) Anions: Chloride, fluoride, sulfate, nitrate, nitrite, and ortho-phosphate

5) Approval for this parameter is based on SOP review only.

Based on the successful analysis of the proficiency testing (PT) samples and the outcome of the laboratory audit conducted by the Navy on December 17-19, 2001, your laboratory will be validated for sample analysis by the methods listed above. Note that any corrective action committed to by your laboratory as a result of the Navy inspection will also apply to this USACE validation. The period of validation, based on approval by the Navy, expires on April 15, 2004.

The USACE reserves the right to conduct additional laboratory inspection or to suspend validation status for any or all of the listed parameters if deemed necessary. It should be noted that your laboratory may not subcontract USACE analytical work to any other laboratory location without the approval of this office. This laboratory validation does not guarantee the delivery of any analytical samples from a USACE Contracting Officer Representative.

Any questions of comments can be directed to Richard Kissinger at (402) 697-2569. General questions regarding laboratory validation may be directed to the Laboratory Validation Coordinator at (402) 697-2574.

Sincerely,

for Marcia C. Davies, Ph.D.
Director, USACE Hazardous,
Toxic and Radioactive Waste
Center of Expertise

State of California—Health and Human Services Agency
Department of Health Services

California Department of Health Services

DIANA M. BONTÁ, R.N., Dr. P.H.
Director

GRAY DAVIS
Governor

November 20, 2002

Certificate No.: **2165**

DONALD F. GIPPLE
PARAGON ANALYTICS, INC.
225 COMMERCE DRIVE
FORT COLLINS, CO 80524

Dear DONALD F. GIPPLE:

This is to advise you that the laboratory named above continues to be certified as an environmental testing laboratory pursuant to the provisions of the California Environmental Laboratory Improvement Act (Health and Safety Code (HSC), Division 101, Part 1, Chapter 4, Section 100825, et seq.). Certification for all currently certified Fields of Testing that the laboratory has applied for renewal shall remain in effect until **10/31/2004** unless revoked.

Please note that the renewal application for certification is subject to an on-site visit, and continued use of the certificate is contingent upon:

* **successful completion of the site visit;**
* **acceptable performance in the required performance evaluation (PE) studies;**
* **timely payment of all fees, including an annual fee due before October 31, 2001;**
* **compliance with Environmental Laboratory Accreditation Program (ELAP) statutes (HSC, Section 100825, et seq.) and Regulations (California Code of Regulations (CCR),Title 22, Division 4, Chapter 19).**

An updated "Approved Fields of Testing" will be issued to the laboratory upon completion of the renewal process. The application for the next renewal must be received 90 days before the expiration of this certificate to remain in force according to the CCR, Section 64801 through 64827.

Please note that the laboratory is required to notify ELAP of any major changes in the laboratory such as the transfer of ownership, change of laboratory director, change in location, or structural alterations which may affect adversely the quality of analyses (HSC, Section 100845(b)(d)). Please include the above certificate number in all your correspondence to ELAP.

If you have any questions, please contact ELAP at (510) 540-2800.

Sincerely,

George C. Kulasingam

George C. Kulasingam, Ph.D.
Program Chief
Environmental Laboratory Accreditation Program

NOTICE

The "List of Approved Fields of Testing and Analytes", as stated on this certificate will be sent to your laboratory upon completion of the entire certification process, which includes an on-site inspection and participation in the appropriate PT studies.

CALIFORNIA DEPARTMENT OF HEALTH SERVICES
ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM
Accredited Fields of Testing

PARAGON ANALYTICS, INC.
225 COMMERCE DRIVE
FORT COLLINS, CO 80524

Lab Phone (970) 490-1511

Certificate No: 2165 **Renew Date: 10/31/2002**

Field of Testing: 06 - Radiochemistry			
06.01	01	Gross Alpha and Beta Radiation	EPA 900.0
06.02	01	Total Alpha Radium	EPA 903.0
06.03	01	Radium-226	EPA 903.1
06.04	05	Uranium	ASTM D5174-91
06.04	08	Uranium	ASTM D3972-90
06.05	01	Radon-222	SM7500-Rn
06.06	07	Radioactive Cesium	EPA 901.1
06.09	01	Tritium	EPA 906.0
06.10	01	Gamma and Photon Emitters	EPA 901.1
06.11	02	Gross Alpha by Coprecipitation	SM7110C
06.12	01	Radium-228	EPA 904.0
06.13	10	Radioactive Iodine	EPA 901.1
06.14	01	Gross Alpha and Beta In Hazardous Wastes	EPA 9310
06.15	01	Alpha Emitting Radium Isotopes In Hazardous Waste	EPA 9315
06.16	01	Radium 228 In Hazardous Wastes	EPA 9320
Field of Testing: 09 - Physical Properties Testing of Hazardous Waste			
09.01	00	Ignitability	
09.02	00	Corrosivity - pH Determination	
09.04	00	Reactivity	Section 7.3 SW-846
Field of Testing: 10 - Inorganic Chemistry and Toxic Chemical Elements of Hazardous Waste			
10.01	00	Antimony	
10.02	00	Arsenic	
10.03	00	Barium	
10.04	00	Beryllium	
10.05	00	Cadmium	
10.06	00	Chromium, Total	
10.07	00	Cobalt	
10.08	00	Copper	
10.09	00	Lead	
10.10	00	Mercury	
10.11	00	Molybdenum	
10.12	00	Nickel	
10.13	00	Selenium	
10.14	00	Silver	
10.15	00	Thallium	
10.16	00	Vanadium	
10.17	00	Zinc	
10.18	00	Chromium (VI)	
10.19	00	Cyanide	
10.20	00	Fluoride	

As of 08/27/2002 , this list supersedes all previous lists for this certificate number.
Customers: Please verify the current accreditation standing with the State.

PARAGON ANALYTICS, INC.

Certificate No: 2165
Renew Date: 10/31/2002

Field of Testing:	11 - Extraction Tests of Hazardous Waste		
11.01	01	Waste Extraction Test (WET)	CCR Chapter11, Article 5, Appendix II
11.03	01	Toxicity Characteristic Leaching Procedure (TCLP)	EPA 1311
11.07	01	Synthetic Precipitation Leaching Procedure (SPLP)	EPA 1312
Field of Testing:	12 - Organic Chemistry of Hazardous Waste by GC/MS		
12.03A	01	Extractable Organics	EPA 8270C
12.06A	01	Volatile Organic Compounds	EPA 8260B
Field of Testing:	13 - Organic Chemistry of Hazardous Waste (excluding GC/MS)		
13.11	01	Organophosphorus Pesticides	EPA 8141A
13.12	01	Chlorinated Herbicides	EPA 8151A
13.13	01	Polynuclear Aromatic Hydrocarbons	EPA 8310
13.15	01	Total Petroleum Hydrocarbons - Gasoline	LUFT
13.16	01	Total Petroleum Hydrocarbons - Diesel	LUFT
13.18	01	EDB and DBCP	EPA 8011
13.19B	01	Aromatic Volatiles	EPA 8021B
13.19C	01	BTEX	EPA 8021B
13.19D	01	Methyl tert-butyl Ether (MTBE)	EPA 8021B
13.23	01	Nitroaromatics and Nitramines	EPA 8330
13.24C	01	PCBs	EPA 8082
13.25C	01	Organochlorine Pesticides	EPA 8081A
Field of Testing:	16 - Wastewater Inorganic Chemistry, Nutrients and Demand		
16.02	00	Alkalinity	
16.05	00	Boron	
16.07	00	Calcium	
16.10	00	Chloride	
16.12	00	Cyanide	
16.13	00	Cyanide, amenable	
16.15	00	Hardness - Total as CaCO3	
16.17	00	Magnesium	
16.18	00	Nitrate	
16.19	00	Nitrite	
16.21	00	Total Organic Carbon	
16.23	00	pH	
16.25	00	Phosphate, Ortho	
16.26	00	Phosphorus, Total	
16.27	00	Potassium	
16.29	00	Residue, Filterable	
16.30	00	Residue, Non-filterable	
16.34	00	Sodium	
16.35	00	Conductivity	
16.37	00	Sulfide	
Field of Testing:	17 - Toxic Chemical Elements in Wastewater		
17.01	00	Aluminum	
17.02	00	Antimony	
17.03	00	Arsenic	
17.04	00	Barium	
17.05	00	Beryllium	
17.06	00	Cadmium	
17.08	00	Chromium, Total	

As of 08/27/2002 , this list supersedes all previous lists for this certificate number.
Customers: Please verify the current accreditation standing with the State.

17.09	00	Cobalt	
17.10	00	Copper	
17.13	00	Iron	
17.14	00	Lead	
17.15	00	Manganese	
17.16	00	Mercury	
17.17	00	Molybdenum	
17.18	00	Nickel	
17.24	00	Selenium	
17.25	00	Silver	
17.27	00	Thallium	
17.30	00	Vanadium	
17.31	00	Zinc	
Field of Testing:		18 - Organic Chemistry of Wastewater by GC/MS	
18.01	01	All Volatile Organics	EPA 624
18.02	01	All Acid/base/neutral Compounds	EPA 625
Field of Testing:		19 - Organic Chemistry of Wastewater (excluding GC/MS)	
19.08A	01	PCBs and Organochlorine Pesticides	EPA 608
19.08B	01	PCBs	EPA 608
19.10	01	Polynuclear Aromatics	EPA 610

STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES
ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

ENVIRONMENTAL LABORATORY CERTIFICATION

Is hereby granted to

PARAGON ANALYTICS, INC.

225 COMMERCE DRIVE

FORT COLLINS, CO 80524

Scope of certification is limited to the
"Accredited Fields of Testing"
which accompanies this Certificate.

Continued certification status depends on successful completion of site visit, proficiency testing studies, and payment of applicable fees.

This Certificate is granted in accordance with provisions of Section 100825, et seq. of the Health and Safety Code.

Certificate No: **2165**
Expiration Date: **10/31/2004**
Effective Date: **10/01/2002**

Berkeley, California
subject to forfeiture or revocation.

George C. Kulasingam, Ph.D.
Program Chief
Environmental Laboratory Accreditation Program

STATE OF COLORADO

Bill Owens, Governor
Jane E. Norton, Executive Director

Dedicated to protecting and improving the health and environment of the people of Colorado

4300 Cherry Creek Dr. S.
Denver, Colorado 80246-1530
Phone (303) 692-2000
TDD Line (303) 691-7700
Located in Glendale, Colorado

http://www.cdphe.state.co.us

Laboratory and Radiation Services Division
8100 Lowry Blvd.
Denver, Colorado 80230-6928
(303) 692-3090

Colorado Department
of Public Health
and Environment

September 12, 2002

Debra Henderer
Paragon Analytics, Inc.
225 Commerce Drive
Fort Collins, CO 80524

Dear Ms. Henderer:

Enclosed are your Colorado Department of Public Health and Environment Safe Drinking Water (SDW) Chemistry Certificate and attached analyte list, dated September 12, 2002. Certification is effective September 12, 2002 through June 30, 2003, unless modified prior to that date. Certification is based upon review of your original Plan of Correction (POC) dated August 1, 2002, and a subsequent addendum dated September 9, 2002, along with the attached supporting documentation. As stated by laboratory in the POC, the Proficiency Testing (PT) results for Nitrate/Nitrite (EPA-353.2) will be forwarded to this office at a later date. The laboratory's Certificate and analyte list will be amended upon receipt of successful PT results for this analyte/method.

In all probability there will not be an on-site inspection at the time of renewal, but it is the laboratory's responsibility to submit a renewal application by June 2003.

Thank you for your cooperation during the survey process. If you have any questions, or if there are changes that may affect your certification status, please contact me in the SDW Laboratory Certification Program at (303) 692-3045.

Sincerely,

Ken Johnson
SDW Certification Officer
Laboratory and Radiation Services Division

Attachments: As Stated

J:\SDW\LETTERS\paragon-ccertltr.doc

Name: Paragon Analytics, Inc.
225 Commerce Drive
Fort Collins, CO 80524

Date: September 12, 2002

THM	METHOD
(A)Bromodichloromethane	EPA524.2
(A)Bromoform	EPA524.2
(A)Chlorodibromomethane	EPA524.2
(A)Chloroform	EPA524.2
	EPA524.2

REGULATED VOC

V1

(A)Benzene	EPA524.2
(A)Carbon Tetrachloride	EPA524.2
(A)1,2-Dichlorobenzene	EPA524.2
(A)1,2-Dichloroethane	EPA524.2
(A)1,1-Dichloroethylene	EPA524.2
(A)Trichloroethylene	EPA524.2
(A)Vinyl Chloride	EPA524.2

V2

(A)Chlorobenzene	EPA524.2
(A)1,4-Dichlorobenzene	EPA524.2
(A)c-1,2-Dichloroethylene	EPA524.2
(A)t-1,2-Dichloroethylene	EPA524.2
(A)1,2-Dichloropropane	EPA524.2
(A)Ethylbenzene	EPA524.2
(A)Styrene	EPA524.2
(A)Tetrachloroethylene	EPA524.2
(A)Toluene	EPA524.2
(A)1,1,1-Trichloroethane	EPA524.2
(A)Xylenes (Total)	EPA524.2
(A)Dichloromethane	EPA524.2
(A)1,2,4-Trichlorobenzene	EPA524.2
(A)1,1,2-Trichloroethane	EPA524.2

V3

(A)1,2-Dibromo3-chloropropane	EPA-504.1
(A)Ethylene dibromide	EPA-504.1

MISCELLANEOUS	METHOD
(N)Diquat	
(N)Endothall	
(N)Glyphosate	
(N)Asbestos	
(N)Dioxin	
(N)Cyanide	

HALOACETIC ACIDS (HAAs)

(N)Monoacetic Acid	
(N)Dichloroacetic Acid	
(N)Trichloroacetic Acid	
(N)Monobromoacetic Acid	
(N)Dibromoacetic Acid	

(A) = Approved / Certified
(N) = Not Certified
(P) = Provisionally Certified
(I) = Interim Certified

CERTIFICATION STATUS (CHEMISTRY) SAFE DRINKING WATER ACT

Name: Paragon Analytics, Inc.
225 Commerce Drive
Fort Collins, CO 80524

Date: September 12, 2002

TRACE METALS	METHOD
TM1 (limited)	
(A)Arsenic	**EPA-200.7**
(A)Barium	**EPA-200.7**
(A)Cadmium	**EPA-200.7**
(A)Chromium	**EPA-200.7**
(N)Lead	
(A)Mercury	**EPA-245.1**
(N)Selenium	
TM2 (limited)	
(N)Antimony	
(A)Beryllium	**EPA-200.7**
(A)Copper	**EPA-200.7**
(A)Nickel	**EPA-200.7**
(N)Thallium	

NITRATE/NITRITE/FLUORIDE	
N/N/F	
(A)Nitrate-N	**EPA-300.0**
(A)Nitrite-N	**EPA-300.0**
(A)Fluoride-F	**EPA-300.0**

PESTICIDES	
P1	
(A)Endrin	**EPA-505**
(A)Lindane	**EPA-505**
(A)Methoxychlor	**EPA-505**
(A)Toxaphene	**EPA-505**
P2 (limited)	
(N)Alachlor	
(N)Atrazine	
(A)Chlordane	**EPA-505**
(A)Heptachlor	**EPA-505**
(A)Heptachlor epoxide	**EPA-505**
(N)Hexachlorobenzene	
(N)Hexachloro-cyclopentadiene	
(N)Simazine	

CARBAMATES/VYDATE	METHOD
C/V	
(N)Carbofuran	
(N)Oxamyl(Vydate)	

HERBICIDES	
H1	
(A)2,4-D	**EPA-515.1**
(A)2,4,5-TP	**EPA-515.1**
H2 (limited)	
(A)Dalapon	**EPA-515.1**
(A)Dinoseb	**EPA-515.1**
(N)Pentachlorophenol	
(N)Picloram	

PCB
(N)Decachlorobiphenyl

PAH
(N)Benzo(a)pyrene

ADIPATES/PHTHALATES
A/P

(N)Bis-(2-ethylhexyl) Adipate
(N)Bis-(2-ethylhexyl) Phthalate

(A) = Approved / Certified
(N) = Not Certified
(P) = Provisionally Certified

Colorado Department of Public Health and Environment

under Primacy Agreement with the
United States Environmental Protection Agency
Pursuant to the Safe Drinking Water Regulations, 40CFR, Part 141

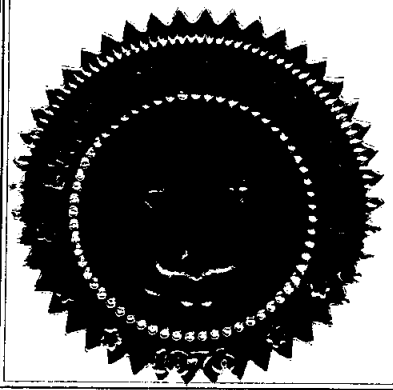
Certifies

Paragon Analytics, Inc.
225 Commerce Drive
Fort Collins, CO 80524

is in compliance with the criteria and procedures of the EPA, Manual for the Certification of Laboratories Analyzing Drinking Water. The laboratory may perform **Chemical Analysis** on public drinking water for the following analyte groups:

Trace Metals (TM1-limited,TM2-limited); Volatile Organics (V1,V2,V3); Trihalomethanes; Pesticides (P1,P2-limited); Herbicides (H1,H2-limited); Nitrate; Nitrite; Fluoride.

Approved analytes and methods are delineated on certification list of September 12, 2002



EFFECTIVE: September 12, 2002 through June 30, 2003

David A. Butcher

David A. Butcher, Director
Laboratory and Radiation Services Division

LITHO. IN U.S.A.

STATE OF COLORADO

Bill Owens, Governor
Douglas H. Benevento, Acting Executive Director

Dedicated to protecting and improving the health and environment of the people of Colorado

4300 Cherry Creek Dr. S.
Denver, Colorado 80246-1530
Phone (303) 692-2000
TDD Line (303) 691-7700
Located in Glendale, Colorado

http://www.cdphe.state.co.us

Laboratory and Radiation Services Division
8100 Lowry Blvd.
Denver, Colorado 80230-6928
(303) 692-3090

Colorado Department
of Public Health
and Environment

October 18, 2002

Debra Henderer, QA Manager
Paragon Analytics, Inc.
225 Commerce Drive
Fort Collins, CO. 80524

Dear Ms. Henderer:

Enclosed are your Colorado Department of Public Health and Environment Safe Drinking Water (SDW), Radiochemistry Certificate and Certification List that specifies parameters certified and approved methods. Certification is effective October 18, 2002, through October 31, 2003.

Certification is based upon review of the renewal application documentation, the findings of the on-site evaluation of August 22, 2002 (focused on new methods requested), your acceptable plan of correction dated October 14, 2002, and continued successful participation in two Proficiency Evaluation (PE) events annually (every 12 months).

Thank you for your efforts to maintain certification in Colorado. If you have any questions, or if there are changes, which may affect your certification status, please contact me at the Laboratory Certification Program at (303) 692-3291.

Sincerely,

Yvonne K. Herman

Yvonne K. Herman, Certification Program Manager
Laboratory and Radiation Services Division

Attachments: As Stated

CERTIFICATION STATUS (RADIOCHEMISTRY) SAFE DRINKING WATER ACT

Name: Paragon Analytics, Inc.
225 Commerce Drive
Fort Collins, CO 80524

Date: October 18, 2002

RADIO NUCLIDE	METHOD
Gross Alpha	EPA 900.0
Gross Beta	EPA 900.0
Radium 226 (223, 224) (Ra isotope screen for alpha activity)	EPA 903.0
Radium 226	EPA 903.1
Radium 228	EPA 904.0
Uranium	D3972-90
Cesium 134, 137	EPA901.1
Iodine	WITHDRAWN BY LABORATORY
Tritium	EPA906.0
Gamma Emitters	EPA901.1

Colorado Department of Public Health and Environment

under Primacy Agreement with the
United States Environmental Protection Agency
Pursuant to the Safe Drinking Water Regulations, 40CFR, Part 141

Certifies

PARAGON ANALYTICS, INC.
225 COMMERCE DRIVE
FORT COLLINS, COLORADO 80524

is in compliance with the criteria and procedures of the EPA, Manual for the Certification of Laboratories Analyzing Drinking Water. The laboratory may perform **Radiochemistry Analysis** on public drinking water for the following analytes:

Gross Alpha, Gross Beta, Radium-226 (mixed Ra isotopes), Radium-228,
Uranium, Cesium, Tritium, Gamma Emitters (excluding Iodine)

Approved for the methods on list dated October 18, 2002.

EFFECTIVE: October 18, 2002, through October 31, 2003

David A. Butcher, Director
Laboratory and Radiation Services Division

CONNECTICUT DEPARTMENT OF PUBLIC HEALTH
BUREAU OF REGULATORY SERVICES
410 CAPITOL AVENUE
HARTFORD, CT 06134
ENVIRONMENTAL LABORATORY CERTIFICATION SECTION

PARAGON ANALYTICS, INC.

CT PUBLIC HEALTH APPROVAL NUMBER:
PH- 0232

DATE ISSUED: June 26, 2002
EXPIRATION DATE: June 30, 2004

ADDRESS:
225 Commerce Drive
Fort Collins, CO 80524

DIRECTOR:
Donald F. Gipple

CO-DIRECTOR(S):

REGISTRANT:
Debra Scheib

Reviewed and Approved by:
Nicholas V. Macellatti Jr.

APPROVED ANALYTES LIST

[TESTS *APPROVED* INDICATED BY "✓"]

	POTABLE WATER	WASTEWATER	SOLID WASTE/SOIL
Demands:			
BOD			
COD			
TOC		✓	✓
CBOD			
Metals:			
Aluminum	✓	✓	✓
Antimony	✓	✓	✓
Arsenic	✓	✓	✓
Barium	✓	✓	✓
Beryllium	✓	✓	✓
Boron		✓	✓
Cadmium	✓	✓	✓
Calcium	✓	✓	✓
Chromium	✓	✓	✓
Cobalt		✓	✓
Copper	✓	✓	✓
Iron		✓	✓
Lead	✓	✓	✓
Magnesium	✓	✓	✓
Manganese	✓	✓	✓
Mercury	✓	✓	✓
Molybdenum	✓	✓	✓
Nickel	✓	✓	✓
Potassium		✓	✓
Selenium	✓	✓	✓
Silver	✓	✓	✓
Sodium	✓	✓	✓
Strontium		✓	✓
Thallium	✓	✓	✓
Tin			✓
Titanium			✓
Vanadium	✓	✓	✓
Zinc	✓	✓	✓

APPROVED ANALYTES LIST

[TESTS *APPROVED* INDICATED BY "✓"]

	POTABLE WATER	WASTEWATER	SOLID WASTE/SOIL
CHEMISTRY			
Inorganic Chemicals:			
Physical Exams:			
Color			
Odor			
Turbidity			
pH	✓	✓	✓
Conductivity			✓
Temperature			
Minerals:			
Acidity			
Alkalinity			
Hardness (Ca)			
Hardness (Total)		✓	
Sulfate	✓	✓	
Sulfide		✓	
Sulfite			
Bromide		✓	✓
Chloride		✓	✓
Fluoride	✓	✓	✓
Chlorine			
Nutrients:			
Ammonia		✓	
Kjeldahl Nitrogen			
Nitrate	✓	✓	✓
Nitrite	✓	✓	✓
Ortho-phosphate	✓	✓	✓
Total Phosphorus		✓	

APPROVED ANALYTES LIST

[TESTS *APPROVED* INDICATED BY "✓"]

	POTABLE WATER	WASTEWATER	SOLID WASTE/SOIL
Miscellaneous:			
Total Solids		✓	
Total Dissolved Solids	✓	✓	
Total Volatile Solids		✓	
Total Suspended Solids			
Chromium VI			✓
Cyanide	✓		✓
Silica			
Surfactants			
Ignitability			✓
Corrosivity			
Environmental Lead:			
Paint Chips			
Dust Wipes			
Soil			

	POTABLE WATER	WASTEWATER	SOLID WASTE/SOIL
Inorganic Disinfection Byproducts			
Organic Chemicals:			
Miscellaneous:			
Acrolein & Acrylonitrile			
Base/Neutrals & Acids		✓	✓
Benzidine			
Chlorinated Hydrocarbons		✓	
Dioxins & Furans			
Haloacetic Acids			
Haloethers			
Herbicides	✓	✓	✓

APPROVED ANALYTES LIST

[TESTS *APPROVED* INDICATED BY "✓"]

	POTABLE WATER	WASTEWATER	SOLID WASTE/SOIL
Organic Chemicals:			
Miscellaneous: (Continued)			
Nitroaromatics/Isophorone			✓
Nitrosamines			
PCBs		✓	✓
PCBs in Oil			
Perchlorate	✓		
Pesticides	✓	✓	✓
Phenols/Phenolics			
Phthalate Esters		✓	✓
PAHs		✓	✓
Purgeable Aromatics	✓	✓	✓
Purgeable Halocarbons	✓	✓	✓
ETPH			
Oil &Grease			✓
TPH			✓
TOX			
Gross Hydrocarbons			
Organic Disinfection ByProducts			

APPROVED ANALYTES LIST

[TESTS *APPROVED* INDICATED BY "✓"]

~ Drinking Water:

SYNTHETIC ORGANIC CHEMICALS

PHASE II		PHASE V			
Alachlor		Dalapon	✓	VOCs	✓
Aldicarb		Di-(ethylhexyl) phthalate		THMs	✓
Aldicarb Sulfoxide		Di-(ethylhexyl) adipate			
Aldicarb Sulfone		Dinoseb	✓	Unregulated	
Atrazine		Diquat		Carbamates	
Carbofuran		Endothall		Herbicides	✓
Chlordane	✓	Endrin	✓	Chlorinated Pests.	✓
Dibromochloropropane	✓	Glyphosate		N& P Pesticides	
2,4-D	✓	Hexachlorobenzene			
Ethylene Dibromide	✓	Hexachlorocyclopentadiene			
Heptachlor	✓	Oxamyl (Vydate)			
Heptachlor epoxide	✓	Benzo (a) pyrene			
Lindane	✓	Picloram			
Methoxychlor	✓	Simazine			
PCBs	✓	2,3,7,8-TCDD (Dioxin)			
PCB (as DCB)					
Pentachlorophenol					
Toxaphene	✓				
2,4,5-TP (Silvex)	✓				

APPROVED ANALYTES LIST

[TESTS *APPROVED* INDICATED BY "✓"]

RADIOCHEMISTRY

Cesium -134	✓
Cesium -137	✓
Cobalt -60	
Gross alpha	✓
Gross beta	✓
Iodine-131	✓
Nickel -65	
Photon Emitters	✓
Radium-226	✓
Radium-228	✓
Radon	
Strontium -89	✓
Strontium -90	✓
Tritium	✓
Uranium	✓

ASBESTOS

Air - Fiber Counting {PCM}	
Air - Fiber Counting {TEM}	
Bulk Materials-Identification {PLM}	
Bulk Materials-Identification {TEM}	
Water – {TEM}	

State of Connecticut, Department of Public Health

Approved Environmental Laboratory

THIS IS TO CERTIFY THAT THE LABORATORY DESCRIBED BELOW HAS BEEN APPROVED BY THE STATE DEPARTMENT OF PUBLIC HEALTH PURSUANT TO APPLICABLE PROVISIONS OF THE PUBLIC HEALTH CODE AND GENERAL STATUTES OF CONNECTICUT, FOR MAKING THE EXAMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT.

PARAGON ANALYTICS, INC.

LOCATED AT 225 Commerce Drive IN Fort Collins, Colorado 80524

AND REGISTERED IN THE NAME OF Debra Scheib

THIS CERTIFICATE IS ISSUED IN THE NAME OF Donald Gipple WHO HAS BEEN DESIGNATED BY THE REGISTRANT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF APPROVAL AS FOLLOWS:

POTABLE WATER, WASTEWATER, SOLID WASTE/SOIL

Examination For:

INORGANIC CHEMICALS

ORGANIC CHEMICALS

RADIOCHEMICALS

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

THIS CERTIFICATE EXPIRES June 30, 2004 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH

DATED AT HARTFORD, CONNECTICUT, THIS 1st DAY OF July 2002

PH - 0232

Thomas A. Surgalski

DIRECTOR, DIVISION OF ENVIRONMENTAL HEALTH

IDAHO DEPARTMENT OF
HEALTH & WELFARE

DIRK KEMPTHORNE - Governor
KARL B. KURTZ - Director

RICHARD H. SCHULTZ - Administrator
DIVISION OF HEALTH
BUREAU OF LABORATORIES
2220 Old Penitentiary Road
Boise, ID 83712
PHONE 208-334-2235

October 21, 2002

Paragon Analytics, Inc.
225 Commerce Dr.
Fort Collins, CO 80524
Attn: Debra Scheib

Re: Idaho Reciprocity

Ms. Scheib,

I have reviewed the information you submitted in support of renewing certification for testing drinking water in the State of Idaho. The attached certificate itemizes the specific analytes and methods for which Paragon Analytics, Inc. has been approved.

Regarding certification for VOCs, please note that no acceptable result for trans-1,2-dichloroethylene has been received for 2002, so retention of full certification for that analyte will depend upon our receiving an acceptable PT. Note also that approval for Synthetic Organic Chemicals by EPA Method 505 was not granted because Idaho does not recognize that method without considerable supporting documentation (per our conversation earlier today,) even though Colorado has approved your facility for the method. Should you wish to pursue Method 505, be prepared to submit pattern-recognition studies, evidence of routine QC at the levels in EPA's tech notes and a large data packet verifying acceptable MDLs/PQLs (a high-volume injector is also required.). That being said, Idaho does recognize Method 508, and I would have no difficulty with granting reciprocity for any SOCs which have shown an acceptable PT for 2002 via the latter method.

This certificate expires October 31, 2003. For continuation of reciprocity please submit proof of Colorado certification and acceptable calendar year 2003 Performance Evaluation results by October 1, 2003.

If you have any questions, please feel free to contact me.

Sincerely,

Steven D. Radakovich
Laboratory Certification Officer

cc: Lance Nielsen, Bureau Chief Drinking Water & Wastewater

IDAHO DEPARTMENT OF
HEALTH & WELFARE

DIRK KEMPTHORNE - Governor
KARL B. KURTZ - Director

RICHARD H. SCHULTZ - Administrator
DIVISION OF HEALTH
BUREAU OF LABORATORIES
2220 Old Penitentiary Road
Boise, ID 83712
PHONE 208-334-2235

DRINKING WATER LABORATORY CERTIFICATION

Paragon Analytics, Inc.
225 Commerce Dr.
Fort Collins, CO 80524

Issued: October 21, 2002
Expiration: October 31, 2003
(or until revised)

List of Analytes	Status [1]	Methods
Inorganic Chemicals		
Antimony	*	
Arsenic	C	200.7
Barium	C	200.7
Beryllium	C	200.7
Cadmium	C	200.7
Chromium	C	200.7
Copper	C	200.7
Lead	*	
Mercury	C	245.1
Nickel	C	200.7
Selenium	*	
Sodium	C	200.7
Thallium	*	
Cyanide	*	
Fluoride	C	300.0
Nitrate	C	300.0
Nitrite	C	300.0
Volatile Organic Chemicals		
Dibromochloropropane (DBCP)	C	504.1
Ethylene Dibromide (EDB)	C	504.1
Total Trihalomethanes (TTHM's)	C	524.2
VOC's (Except Vinyl Chloride)	C	524.2
Vinyl Chloride	C	524.2
Synthetic Organic Chemicals		
Pesticides		
Alachlor	*	
Atrazine	*	
Chlordane	N	
Endrin	N	
Lindane	N	
Heptachlor	N	
Heptachlor Epoxide	N	
Hexachlorobenzene	*	
Hexachlorocyclopentadiene	*	
Methoxychlor	N	
Simazine	*	
Toxaphene	N	
Herbicides		
2,4-D	C	515.1
2,4,5-TP (Silvex)	C	515.1
Dalapon	C	515.1
Dinoseb	C	515.1
Pentachlorophenol	*	
Picloram	*	
Carbamates		
Carbofuran	*	
Oxamyl (Vydate)	*	
Miscellaneous		
Adipates	*	
Phthalates	*	
Polynuclear Aromatic Hydrocarbons	*	
Polychlorinated Biphenyl's (PCB's)	*	
Diquat	*	
Endothall	*	
Glyphosate	*	
Haloacetic Acids (HAA-5)	*	

1) C = Certified, N = Not Certified, P = Provisionally Certified, * = Certification Not Requested

IDAHO DEPARTMENT OF
HEALTH & WELFARE

DIRK KEMPTHORNE - Governor
KARL B. KURTZ - Director

RICHARD H. SCHULTZ - Administrator
DIVISION OF HEALTH
BUREAU OF LABORATORIES
2220 Old Penitentiary Road
Boise, ID 83712
PHONE 208-334-2235

DRINKING WATER LABORATORY CERTIFICATION

Paragon Analytics, Inc.
225 Commerce Dr.
Fort Collins, CO 80524

Issued: October 21, 2002
Expiration: October 31, 2003
(or until revised)

List of Analytes	Method	Status
Gross Alpha	900.0	P
Gross Beta	900.0	P
Cesium-134	901.1	P
Cesium-137	901.1	P
Iodine-129		
Iodine-131		
Radium-226	903.0,903.1	P
Radium-228	904.0	P
Strontium-89		
Strontium-90		
Tritium	906.0	P
Uranium	ASTM D-5174-91/D3972-90	P
Other Beta / Photon Emitters	901.1	P

R = Reciprocity NR = Not Requested P = Status is provisional based on acceptable historical performance; full certification will be re-instated upon receipt of acceptable PT results for the 2002 calendar year.

KANSAS
DEPARTMENT OF HEALTH & ENVIRONMENT
BILL GRAVES, GOVERNOR
Clyde D. Graeber, Secretary

MEMORANDUM

TO: Deb Scheib
Paragon Analytics, Inc.
225 Commerce Drive
Fort Collins, CO 80524

FROM: Jack McKenzie and Aurora Shields
Laboratory Improvement Specialists

Enclosed please find your NELAP certificate of accreditation to perform analyses on water samples, wastewater samples and/or on solid/hazardous waste samples. Also, note the effective and expiration dates of your new accreditation and be sure to review the parameters listed. It is possible your laboratory applied for parameters not listed on the enclosed accreditation. Those parameters have been denied. If there are any questions concerning the parameters listed, contact this office at (785) 296-1639-Jack or (785) 296-6198-Aurora.

It is essential the laboratory accreditation officer be notified within 30 days of any changes in laboratory director, methods which involve a change in technology, change in ownership, or change in location.

An application packet for re-accreditation will be mailed to you approximately five (5) months prior to the expiration date of your current accreditation. Mark your calendar with the approximate date and be prepared to complete the renewal application and accompanying forms so you can return them to this office with appropriate application fees as soon as possible.

Enclosure/s

Jack McKenzie (785) 296-1639
Aurora Shields (785) 296-6198
http://www.kdhe.state.ks.us/lipo
Forbes Field, Bldg. 740
Topeka, KS 66620-0001
FAX (785) 296-8068

KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT
ENVIRONMENTAL LABORATORY CERTIFICATION
DRINKING WATER CERTIFICATION - PARAMETER LIST

This certificate supersedes all previous certificates

Paragon Analytics, Inc.
225 Commerce Drive
Fort Collins, CO 80524

Certificate Number: E-10196
Effective Date: 07/01/2002
Expiration Date: 07/31/2003
Reciprocity: UT

The laboratory listed above is hereby approved for environmental laboratory certification in accordance with K.S.A. 65-1,109a for performing drinking water analysis for the following parameters:

**INORGANIC
Phosphate, Ortho {EPA 300.0}

**METALS
Aluminum {EPA 200.7}
Arsenic {EPA 200.7}
Barium {EPA 200.7}
Beryllium {EPA 200.7}
Cadmium {EPA 200.7}
Calcium {EPA 200.7}
Chromium {EPA 200.7}
Copper {EPA 200.7}
Manganese {EPA 200.7}
Mercury {EPA 245.1}
Nickel {EPA 200.7}
Silica {EPA 200.7}
Silver {EPA 200.7}
Sodium {EPA 200.7}
Zinc {EPA 200.7}

**MINERALS
Fluoride {EPA 300.0}
Sulfate {EPA 300.0}

**MISCELLANEOUS
Hydrogen Ion (pH) {EPA 150.1}

**NUTRIENTS
Nitrate {EPA 300.0}
Nitrate {EPA 353.2}
Nitrite {EPA 300.0}
Nitrite {EPA 353.2}

**ORGANIC CHEMISTRY DBCP/EDB
{EPA 504.1} 1,2-Dibromo-3-Chloropropane (DBCP)
{EPA 504.1} Ethylene Dibromide

**ORGANIC CHEMISTRY HERBICIDES
{EPA 515.1} 2,4-D
{EPA 515.1} 2,4,5-TP
{EPA 515.1} Dalapon
{EPA 515.1} Dinoseb

**ORGANIC CHEMISTRY PCB's
{EPA 505} PCB's (as Arochlors)

**ORGANIC CHEMISTRY PESTICIDES
{EPA 505} Chlordane
{EPA 505} Endrin

{EPA 505} Heptachlor
{EPA 505} Heptachlor Epoxide
{EPA 505} Lindane
{EPA 505} Methoxychlor
{EPA 505} Toxaphene

**ORGANIC CHEMISTRY VOLATILES
{EPA 524.2} 1,1-Dichloroethylene
{EPA 524.2} 1,1,1-Trichloroethane
{EPA 524.2} 1,1,2-Trichloroethane
{EPA 524.2} 1,2-Dichlorobenzene
{EPA 524.2} 1,2-Dichloroethane
{EPA 524.2} 1,2-Dichloropropane
{EPA 524.2} 1,2,4-Trichlorobenzene
{EPA 524.2} 1,4-Dichlorobenzene
{EPA 524.2} Benzene
{EPA 524.2} Carbon Tetrachloride
{EPA 524.2} Chlorobenzene
{EPA 524.2} cis-1,2-Dichloroethylene
{EPA 524.2} Dichloromethane
{EPA 524.2} Ethylbenzene
{EPA 524.2} Styrene
{EPA 524.2} Tetrachloroethylene
{EPA 524.2} Toluene
{EPA 524.2} trans-1,2-Dichloroethylene
{EPA 524.2} Trichloroethylene
{EPA 524.2} Vinyl Chloride
{EPA 524.2} Xylene

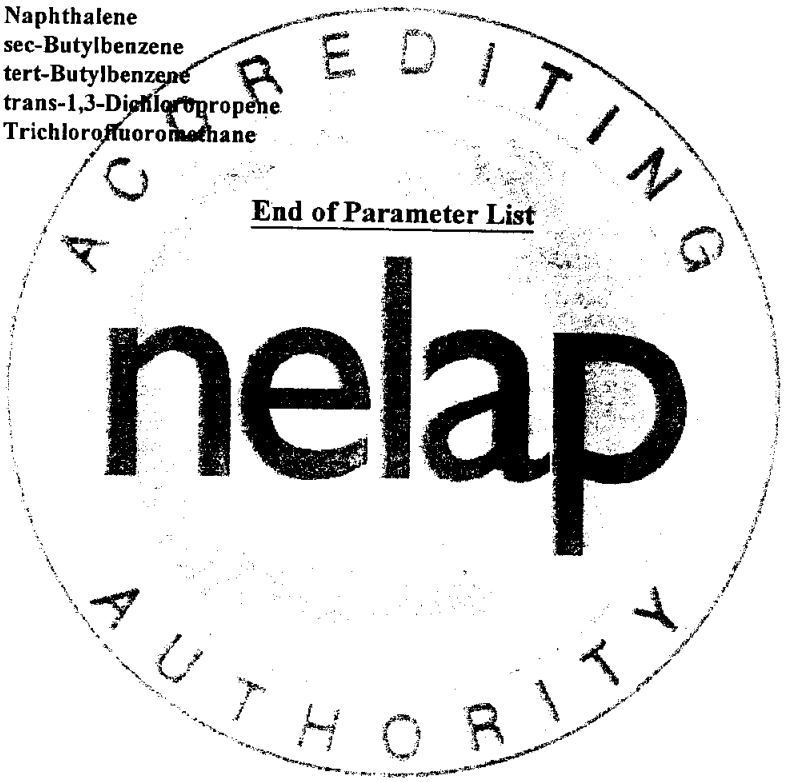
**RADIOCHEMISTRY
Gamma emitters {EPA [illegible]}
Gross Alpha {EPA 900.[illegible]}
Gross Beta {EPA 900.0}
Radioactive Cesium {EPA 901.1}
Radioactive Iodine {EPA 901.1}
Radium - 226 {EPA 903.0}
Radium - 226 {EPA 903.1}
Radium - 228 {EPA 904.0}
Total Alpha Radium {EPA 903.0}
Uranium {EPA 908.0}

**TRIHALOMETHANES
{EPA 524.2} Bromodichloromethane
{EPA 524.2} Bromoform
{EPA 524.2} Chloroform
{EPA 524.2} Dibromochloromethane

**UNREGULATED ORGANIC COMPOUNDS
{EPA 505} Aldrin
{EPA 505} Dieldrin
{EPA 515.1} Dicamba
{EPA 524.2} 1,1-Dichloroethane
{EPA 524.2} 1,1-Dichloropropene
{EPA 524.2} 1,1,1,2-Tetrachloroethane
{EPA 524.2} 1,1,2,2-Tetrachloroethane
{EPA 524.2} 1,2,3-Trichlorobenzene
{EPA 524.2} 1,2,3-Trichloropropane
{EPA 524.2} 1,2,4-Trimethylbenzene
{EPA 524.2} 1,3-Dichlorobenzene
{EPA 524.2} 1,3-Dichloropropane

{EPA 524.2} 1,3,5-Trimethylbenzene
{EPA 524.2} 2-Chlorotoluene
{EPA 524.2} 2,2-Dichloropropane
{EPA 524.2} 4-Chlorotoluene
{EPA 524.2} 4-Isopropyltoluene
{EPA 524.2} Bromobenzene
{EPA 524.2} Bromochloromethane
{EPA 524.2} Bromomethane
{EPA 524.2} Chloroethane
{EPA 524.2} Chloromethane
{EPA 524.2} cis-1,3-Dichloropropene
{EPA 524.2} Dibromomethane
{EPA 524.2} Dichlorodifluoromethane
{EPA 524.2} Hexachlorobutadiene
{EPA 524.2} Isopropylbenzene
{EPA 524.2} n-Butylbenzene
{EPA 524.2} n-Propylbenzene
{EPA 524.2} Naphthalene
{EPA 524.2} sec-Butylbenzene
{EPA 524.2} tert-Butylbenzene
{EPA 524.2} trans-1,3-Dichloropropene
{EPA 524.2} Trichlorofluoromethane

End of Parameter List



KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT
ENVIRONMENTAL LABORATORY CERTIFICATION
WASTE WATER CERTIFICATION - PARAMETER LIST

This certificate supersedes all previous certificates

Paragon Analytics, Inc.
225 Commerce Drive
Fort Collins, CO 80524

Certificate Number: E-10196
Effective Date: 07/01/2002
Expiration Date: 07/31/2003
Reciprocity: UT

The laboratory listed above is hereby approved for environmental laboratory certification in accordance with K.S.A. 65-1,109a for performing waste water analysis for the following parameters:

**METALS
Aluminum {EPA 200.7}
Antimony {EPA 200.7}
Arsenic {EPA 200.7}
Barium {EPA 200.7}
Beryllium {EPA 200.7}
Boron {EPA 200.7}
Cadmium {EPA 200.7}
Calcium {EPA 200.7}
Chromium {EPA 200.7}
Cobalt {EPA 200.7}
Copper {EPA 200.7}
Iron {EPA 200.7}
Lead {EPA 200.7}
Magnesium {EPA 200.7}
Manganese {EPA 200.7}
Mercury {EPA 245.1}
Molybdenum {EPA 200.7}
Nickel {EPA 200.7}
Potassium {EPA 200.7}
Selenium {EPA 200.7}
Silver {EPA 200.7}
Sodium {EPA 200.7}
Thallium {EPA 200.7}
Vanadium {EPA 200.7}
Zinc {EPA 200.7}

**MINERALS
Alkalinity {EPA 310.1}
Chloride {EPA 300.0}
Chloride {EPA 325.3}
Fluoride {EPA 300.0}
Fluoride {EPA 340.2}
Sulfate {EPA 300.0}
Sulfide {EPA 376.1}

**MISCELLANEOUS
Bromide {EPA 300.0}
Hydrogen Ion (pH) {EPA 150.1}

**NUTRIENTS
Ammonia {EPA 350.1}
Nitrate-Nitrite {EPA 353.2}
Nitrate {EPA 300.0}
Nitrate {EPA 353.2}
Nitrite {EPA 354.1}
O-Phosphate {EPA 300.0}
O-Phosphate {EPA 365.2}
Phosphorus {EPA 365.2}

**ORGANIC CHEMISTRY VOLATILES (MEASUREMENT BY GC)
{EPA 602} 1,2-Dichlorobenzene
{EPA 602} 1,3-Dichlorobenzene
{EPA 602} 1,4-Dichlorobenzene
{EPA 602} Benzene
{EPA 602} Chlorobenzene
{EPA 602} Ethylbenzene
{EPA 602} Toluene

**ORGANIC CHEMISTRY VOLATILES (MEASUREMENT BY GC/MS)
{EPA 624} 1,1-Dichloroethylene
{EPA 624} 1,1,1-Trichloroethane
{EPA 624} 1,1,2-Trichloroethane
{EPA 624} 1,2-Dichlorobenzene
{EPA 624} 1,2-Dichloroethane
{EPA 624} 1,2-Dichloropropane
{EPA 624} 1,3-Dichlorobenzene
{EPA 624} 1,4-Dichlorobenzene
{EPA 624} 2-Chloroethyl vinyl ether
{EPA 624} Benzene
{EPA 624} Bromodichloromethane
{EPA 624} Bromoform
{EPA 624} Bromomethane
{EPA 624} Carbon Tetrachloride
{EPA 624} Chlorobenzene
{EPA 624} Chloroethane
{EPA 624} Chloroform
{EPA 624} Chloromethane
{EPA 624} cis-1,3-Dichl[illegible]
{EPA 624} Dibromochl[illegible]meth[illegible]
{EPA 624} Dichlorome[illegible]ne (M[illegible]e Chloride)
{EPA 624} Ethylbenzen[illegible]
{EPA 624} Tetrachloro[illegible]ylene
{EPA 624} Toluene
{EPA 624} trans-1,2-Dichloroethylene
{EPA 624} trans-1,3-Dichloropropene
{EPA 624} Trichloroethylene
{EPA 624} Trichlorofluoromethane
{EPA 624} Vinyl Chloride

**ORGANIC CHEMISTRY (MEASUREMENT BY GC)
{EPA 608} 4,4'-DDD
{EPA 608} 4,4'-DDE
{EPA 608} 4,4'-DDT
{EPA 608} Aldrin
{EPA 608} alpha-BHC
{EPA 608} beta-BHC
{EPA 608} Chlordane
{EPA 608} delta-BHC
{EPA 608} Dieldrin
{EPA 608} Endosulfan I
{EPA 608} Endosulfan II
{EPA 608} Endosulfan Sulfate
{EPA 608} Endrin
{EPA 608} Endrin aldehyde
{EPA 608} gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)
{EPA 608} Heptachlor
{EPA 608} Heptachlor epoxide
{EPA 608} PCB-1016

{EPA 608} PCB-1221
{EPA 608} PCB-1232
{EPA 608} PCB-1242
{EPA 608} PCB-1248
{EPA 608} PCB-1254
{EPA 608} PCB-1260
{EPA 608} Toxaphene
{EPA 610} Acenaphthene
{EPA 610} Acenaphthylene
{EPA 610} Anthracene
{EPA 610} Benzo(a)anthracene
{EPA 610} Benzo(a)pyrene
{EPA 610} Benzo(b)fluoranthene
{EPA 610} Benzo(g,h,i)perylene
{EPA 610} Benzo(k)fluoranthene
{EPA 610} Chrysene
{EPA 610} Dibenzo(a,h)anthracene
{EPA 610} Fluoranthene
{EPA 610} Fluorene
{EPA 610} Indeno(1,2,3-c,d)pyrene
{EPA 610} Naphthalene
{EPA 610} Phenanthrene
{EPA 610} Pyrene
{EPA 614} Azinphos methyl
{EPA 614} Demeton-o
{EPA 614} Demeton-s
{EPA 614} Diazinon
{EPA 614} Disulfoton
{EPA 614} Parathion methyl
{EPA 615} 2,4-D
{EPA 615} 2,4-DB
{EPA 615} 2,4,5-T
{EPA 615} 2,4,5-TP
{EPA 615} Dicamba
{EPA 615} Dichlorprop
{EPA 615} Dinoseb
{EPA 615} MCPA
{EPA 615} MCPP

**ORGANIC CHEMISTRY (MEASUREMENT BY GC/MS)
{EPA 625} 1,2-Dichlorobenzene
{EPA 625} 1,2,4-Trichlorobenzene
{EPA 625} 1,3-Dichlorobenzene
{EPA 625} 1,4-Dichlorobenzene
{EPA 625} 2-Chloronaphthalene
{EPA 625} 2-Chlorophenol
{EPA 625} 2-Methyl-4,6-Dinitrophenol
{EPA 625} 2-Nitrophenol
{EPA 625} 2,4-Dichlorophenol
{EPA 625} 2,4-Dimethylphenol
{EPA 625} 2,4-Dinitrophenol
{EPA 625} 2,4-Dinitrotoluene
{EPA 625} 2,4,6-Trichlorophenol
{EPA 625} 2,6-Dinitrotoluene
{EPA 625} 3,3'-Dichlorobenzidine
{EPA 625} 4-Bromophenyl phenyl ether
{EPA 625} 4-Chloro-3-methylphenol
{EPA 625} 4-Chlorophenyl phenyl ether
{EPA 625} 4-Nitrophenol
{EPA 625} Acenaphthene

{EPA 625} Acenaphthylene
{EPA 625} Anthracene
{EPA 625} Benzo(a)anthracene
{EPA 625} Benzo(a)pyrene
{EPA 625} Benzo(b)fluoranthene
{EPA 625} Benzo(g,h,i)perylene
{EPA 625} Benzo(k)fluoranthene
{EPA 625} Benzyl butyl phthalate
{EPA 625} Bis(2-chloroethoxy)methane
{EPA 625} Bis(2-chloroethyl)ether
{EPA 625} bis(2-Chloroisopropyl)ether
{EPA 625} Bis(2-ethylhexyl)phthalate
{EPA 625} Chrysene
{EPA 625} Di-n-butyl phthalate
{EPA 625} Di-n-octyl phthalate
{EPA 625} Dibenzo(a,h)anthracene
{EPA 625} Diethyl phthalate
{EPA 625} Dimethyl phthalate
{EPA 625} Fluoranthene
{EPA 625} Fluorene
{EPA 625} Hexachlorobenzene
{EPA 625} Hexachlorobutadiene
{EPA 625} Hexachloroethane
{EPA 625} Indeno(1,2,3-c,d)pyrene
{EPA 625} Isophorone
{EPA 625} N-Nitrosodi-n-propylamine
{EPA 625} N-Nitrosodiphenylamine
{EPA 625} Naphthalene
{EPA 625} Nitrobenzene
{EPA 625} Pentachlorophenol
{EPA 625} Phenanthrene
{EPA 625} Phenol
{EPA 625} Pyrene

**RADIOCHEMISTRY
Gross Alpha {EPA 900.0}
Gross Beta {EPA 900.0}
Radium - 226 {EPA 903.1}
Total Alpha Radium {EPA 903.0}

**RESIDUES
Residue, Filterable (TDS) {EPA 160.1}
Residue, Total {EPA 160.3}
Residue, Volatile {EPA 160.4}

End of Parameter List

KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT
ENVIRONMENTAL LABORATORY CERTIFICATION
SOLID/HAZARDOUS WASTE CERTIFICATION - PARAMETER LIST

This certificate supersedes all previous certificates

Paragon Analytics, Inc.
225 Commerce Drive
Fort Collins, CO 80524

Certificate Number: E-10196
Effective Date: 07/01/2002
Expiration Date: 07/31/2003
Reciprocity: UT

The laboratory listed above is hereby approved for environmental laboratory certification in accordance with K.S.A. 65-1,109a for performing solids and/or hazardous waste analysis for the following parameters:

**CHARACTERISTICS
Ignitability {EPA 1010}
Reactive Cyanide {CHAP 7, SEC. 7.3}
Reactive Sulfide {CHAP 7, SEC. 7.3}
Synthetic Precipitation Leaching Procedure {EPA 1312}
Toxic Characteristic Leaching Procedure {EPA 1311}

**DEMANDS
Total Organic Carbon {EPA 9060}

**INORGANIC
Cyanide {EPA 9014}
Cyanide, Amenable to Cl {EPA 9010B}
Cyanide, Total {EPA 9010B}
Extractable Cyanide {EPA 9013}

**METALS
Aluminum {EPA 6010B}
Antimony {EPA 6010B}
Arsenic {EPA 6010B}
Barium {EPA 6010B}
Beryllium {EPA 6010B}
Boron {EPA 6010B}
Cadmium {EPA 6010B}
Calcium {EPA 6010B}
Chromium {EPA 6010B}
Chromium, VI {EPA 7196A}
Cobalt {EPA 6010B}
Copper {EPA 6010B}
Iron {EPA 6010B}
Lead {EPA 6010B}
Lithium {EPA 6010B}
Magnesium {EPA 6010B}
Manganese {EPA 6010B}
Mercury {EPA 7470A}
Mercury {EPA 7471A}
Molybdenum {EPA 6010B}
Nickel {EPA 6010B}
Phosphorus {EPA 6010B}
Potassium {EPA 6010B}
Selenium {EPA 6010B}
Silver {EPA 6010B}
Sodium {EPA 6010B}
Strontium {EPA 6010B}
Thallium {EPA 6010B}
Tin {EPA 6010B}
Titanium {EPA 6010B}
Vanadium {EPA 6010B}

Zinc {EPA 6010B}

**MINERALS
Bromide {EPA 9056}
Chloride {EPA 9056}
Fluoride {EPA 9056}
Sulfate {EPA 9056}

**MISCELLANEOUS
Hydrogen Ion (pH) {EPA 9040B}
Hydrogen Ion (pH) {EPA 9045C}
Oil & Grease {EPA 9070A}
Oil & Grease {EPA 9071B}
Paint Filter Liquids Test {EPA 9095A}
Specific Conductance {EPA 9050A}

**NUTRIENTS
Nitrate {EPA 9056}
Nitrite {EPA 9056}
Phosphate, Ortho {EPA 9056}

**ORGANIC CHEMISTRY VOLATILES (MEASUREMENT BY GC)
{EPA 8021B} 1,2-Dichlorobenzene
{EPA 8021B} 1,3-Dichlorobenzene
{EPA 8021B} 1,4-Dichlorobenzene
{EPA 8021B} Benzene
{EPA 8021B} Chlorobenzene
{EPA 8021B} Ethylbenzene
{EPA 8021B} meta-Xylene
{EPA 8021B} ortho-Xylene
{EPA 8021B} Toluene

**ORGANIC CHEMISTRY VOLATILES (MEASUREMENT BY GC/MS)
{EPA 8260B} 1-Chloropropane
{EPA 8260B} 1,1-Dichloroethane
{EPA 8260B} 1,1-Dichloroethylene
{EPA 8260B} 1,1-Dichloropropene
{EPA 8260B} 1,1,1-Trichloroethane
{EPA 8260B} 1,1,1,2-Tetrachloroethane
{EPA 8260B} 1,1,2-Trichloroethane
{EPA 8260B} 1,1,2,2-Tetrachloroethane
{EPA 8260B} 1,2-Dibromoethane
{EPA 8260B} 1,2-Dichlorobenzene
{EPA 8260B} 1,2-Dichloroethane
{EPA 8260B} 1,2-Dichloropropane
{EPA 8260B} 1,2,3-Trichlorobenzene
{EPA 8260B} 1,2,3-Trichloropropane
{EPA 8260B} 1,2,4-Trichlorobenzene
{EPA 8260B} 1,2,4-Trimethylbenzene
{EPA 8260B} 1,3-Dichlorobenzene
{EPA 8260B} 1,3,5-Trimethylbenzene
{EPA 8260B} 1,4-Dichlorobenzene
{EPA 8260B} 2-Chloroethyl vinyl ether
{EPA 8260B} 2-Chlorotoluene
{EPA 8260B} 2-Hexanone
{EPA 8260B} 2,2-Dichloropropane
{EPA 8260B} 4-Chlorotoluene
{EPA 8260B} 4-Methyl-2-Pentanone (MIBK)
{EPA 8260B} Acetone
{EPA 8260B} Acrolein

{EPA 8260B} Acrylonitrile
{EPA 8260B} Benzene
{EPA 8260B} Bromobenzene
{EPA 8260B} Bromochloromethane
{EPA 8260B} Bromodichloromethane
{EPA 8260B} Bromoform
{EPA 8260B} Bromomethane
{EPA 8260B} Carbon disulfide
{EPA 8260B} Carbon Tetrachloride
{EPA 8260B} Chlorobenzene
{EPA 8260B} Chloroethane
{EPA 8260B} Chloroform
{EPA 8260B} Chloromethane
{EPA 8260B} cis-1,2-Dichloroethylene
{EPA 8260B} cis-1,3-Dichloropropene
{EPA 8260B} Dibromochloromethane
{EPA 8260B} Dibromochloropropane
{EPA 8260B} Dibromomethane
{EPA 8260B} Dichlorodifluoromethane
{EPA 8260B} Dichloromethane
{EPA 8260B} Ethylbenzene
{EPA 8260B} Hexachlorobutadiene
{EPA 8260B} Iodomethane
{EPA 8260B} Isopropylbenzene
{EPA 8260B} meta-Xylene
{EPA 8260B} Methyl ethyl ketone
{EPA 8260B} Methyl tert-butyl ether (MTBE)
{EPA 8260B} n-Butylbenzene
{EPA 8260B} n-Propylbenzene
{EPA 8260B} Naphthalene
{EPA 8260B} ortho-Xylene
{EPA 8260B} para-Xylene
{EPA 8260B} sec-Butylbenzene
{EPA 8260B} Styrene
{EPA 8260B} tert-Butylbenzene
{EPA 8260B} Tetrachloroethylene
{EPA 8260B} Toluene
{EPA 8260B} trans-1,2-Dichloroethylene
{EPA 8260B} trans-1,3-Dichloropropene
{EPA 8260B} Trichloroethylene
{EPA 8260B} Trichlorofluoromethane
{EPA 8260B} Vinyl Acetate
{EPA 8260B} Vinyl Chloride

**ORGANIC CHEMISTRY (MEASUREMENT BY GC)
{EPA 8011} Dibromochloropropane
{EPA 8011} Ethylene Dibromide
{EPA 8081A} 4,4'-DDD
{EPA 8081A} 4,4'-DDE
{EPA 8081A} 4,4'-DDT
{EPA 8081A} Aldrin
{EPA 8081A} alpha-BHC
{EPA 8081A} alpha-Chlordane
{EPA 8081A} beta-BHC
{EPA 8081A} Chlordane (Tech)
{EPA 8081A} delta-BHC
{EPA 8081A} Dieldrin
{EPA 8081A} Endosulfan I
{EPA 8081A} Endosulfan II
{EPA 8081A} Endosulfan Sulfate

{EPA 8081A} Endrin
{EPA 8081A} Endrin aldehyde
{EPA 8081A} g-BHC (Lindane)
{EPA 8081A} g-Chlordane
{EPA 8081A} Heptachlor
{EPA 8081A} Heptachlor Epoxide
{EPA 8081A} Methoxychlor
{EPA 8081A} Toxaphene
{EPA 8082} PCB-1016
{EPA 8082} PCB-1221
{EPA 8082} PCB-1232
{EPA 8082} PCB-1242
{EPA 8082} PCB-1248
{EPA 8082} PCB-1254
{EPA 8082} PCB-1260
{EPA 8141A} Azinphos methyl
{EPA 8141A} Chloropyrifos
{EPA 8141A} Coumaphos
{EPA 8141A} Demeton-o
{EPA 8141A} Demeton-s
{EPA 8141A} Diazinon
{EPA 8141A} Dichlorvos
{EPA 8141A} Disulfoton
{EPA 8141A} Ethoprop
{EPA 8141A} Fensulfothion
{EPA 8141A} Fenthion
{EPA 8141A} Merphos
{EPA 8141A} Mevinphos
{EPA 8141A} Naled
{EPA 8141A} Parathion methyl
{EPA 8141A} Phorate
{EPA 8141A} Ronnel
{EPA 8141A} Tokuthion
{EPA 8141A} Trichloronate
{EPA 8151A} 2,4-D
{EPA 8151A} 2,4-DB
{EPA 8151A} 2,4,5-T
{EPA 8151A} 2,4,5-TP
{EPA 8151A} Dalapon
{EPA 8151A} Dicamba
{EPA 8151A} Dichlorprop
{EPA 8151A} Dinoseb
{EPA 8151A} MCPA
{EPA 8151A} MCPP

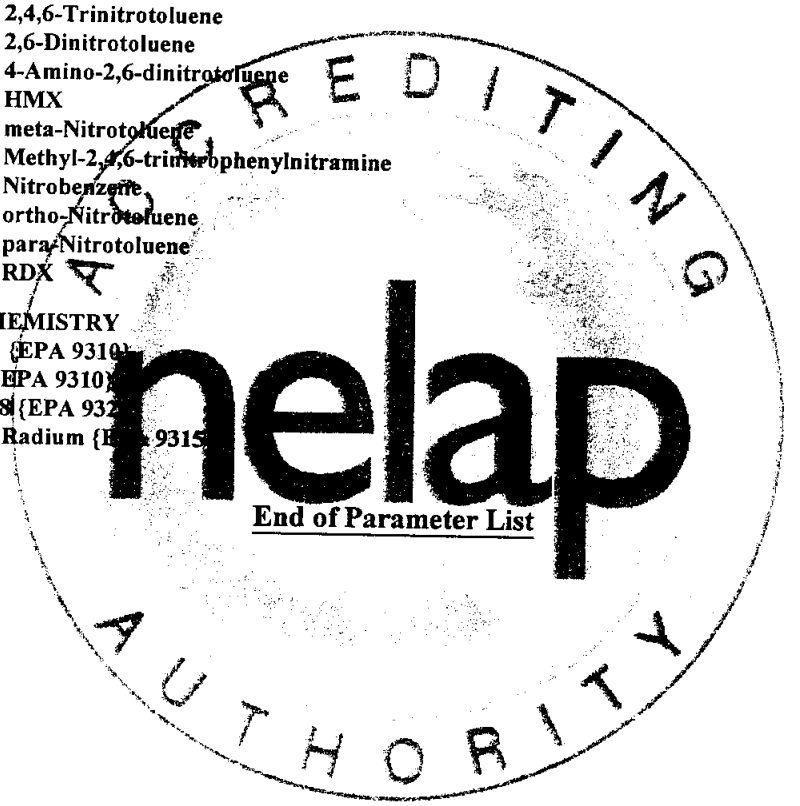
**ORGANIC CHEMISTRY (MEASUREMENT BY GC/MS)
{EPA 8270C} 1,2-Dichlorobenzene
{EPA 8270C} 1,2,4-Trichlorobenzene
{EPA 8270C} 1,3-Dichlorobenzene
{EPA 8270C} 1,4-Dichlorobenzene
{EPA 8270C} 2-Chloronaphthalene
{EPA 8270C} 2-Chlorophenol
{EPA 8270C} 2-Methylnaphthalene
{EPA 8270C} 2-Methylphenol
{EPA 8270C} 2-Nitroaniline
{EPA 8270C} 2-Nitrophenol
{EPA 8270C} 2,4-Dichlorophenol
{EPA 8270C} 2,4-Dimethylphenol
{EPA 8270C} 2,4-Dinitrophenol
{EPA 8270C} 2,4-Dinitrotoluene

{EPA 8270C} 2,4,5-Trichlorophenol
{EPA 8270C} 2,4,6-Trichlorophenol
{EPA 8270C} 2,6-Dinitrotoluene
{EPA 8270C} 3,3'-Dichlorobenzidine
{EPA 8270C} 4-Bromophenyl phenyl ether
{EPA 8270C} 4-Chloro-3-methylphenol
{EPA 8270C} 4-Chloroaniline
{EPA 8270C} 4-Chlorophenyl phenyl ether
{EPA 8270C} 4-Nitroaniline
{EPA 8270C} 4-Nitrophenol
{EPA 8270C} Acenaphthene
{EPA 8270C} Acenaphthylene
{EPA 8270C} Aniline
{EPA 8270C} Anthracene
{EPA 8270C} Benzidine
{EPA 8270C} Benzoic acid
{EPA 8270C} Benzo(a)anthracene
{EPA 8270C} Benzo(a)pyrene
{EPA 8270C} Benzo(b)fluoranthene
{EPA 8270C} Benzo(g,h,i)perylene
{EPA 8270C} Benzo(k)fluoranthene
{EPA 8270C} Benzyl alcohol
{EPA 8270C} Bis(2-chloroethoxy)methane
{EPA 8270C} Bis(2-chloroethyl)ether
{EPA 8270C} Bis(2-chloroisopropyl)ether
{EPA 8270C} Bis(2-ethylhexyl) Phthalate
{EPA 8270C} Butyl benzyl phthalate
{EPA 8270C} Chrysene
{EPA 8270C} Di-n-butyl phthalate
{EPA 8270C} Di-n-octyl phthalate
{EPA 8270C} Dibenzofuran
{EPA 8270C} Dibenzo(a,h)anthracene
{EPA 8270C} Diethyl phthalate
{EPA 8270C} Dimethyl phthalate
{EPA 8270C} Fluoranthene
{EPA 8270C} Fluorene
{EPA 8270C} Hexachlorobenzene
{EPA 8270C} Hexachlorobutadiene
{EPA 8270C} Hexachlorocyclopentadiene
{EPA 8270C} Hexachloroethane
{EPA 8270C} Indeno(1,2,3-c,d)pyrene
{EPA 8270C} Isophorone
{EPA 8270C} meta-Cresol
{EPA 8270C} N-Nitrosodi-n-propylamine
{EPA 8270C} N-Nitrosodimethylamine
{EPA 8270C} N-Nitrosodiphenylamine
{EPA 8270C} Naphthalene
{EPA 8270C} Nitrobenzene
{EPA 8270C} para-Cresol
{EPA 8270C} Pentachlorophenol
{EPA 8270C} Phenanthrene
{EPA 8270C} Phenol
{EPA 8270C} Pyrene
{EPA 8270C} Pyridine

**ORGANIC CHEMISTRY (MEASUREMENT BY HPLC)
{EPA 8310} Acenaphthene
{EPA 8310} Acenaphthylene
{EPA 8310} Anthracene
{EPA 8310} Benzo(a)anthracene

{EPA 8310} Benzo(a)pyrene
{EPA 8310} Benzo(b)fluoranthene
{EPA 8310} Benzo(g,h,i)perylene
{EPA 8310} Benzo(k)fluoranthene
{EPA 8310} Chrysene
{EPA 8310} Dibenzo(a,h)anthracene
{EPA 8310} Fluoranthene
{EPA 8310} Fluorene
{EPA 8310} Indeno(1,2,3-c,d)pyrene
{EPA 8310} Naphthalene
{EPA 8310} Phenanthrene
{EPA 8310} Pyrene
{EPA 8330} 1,3-Dinitrobenzene
{EPA 8330} 1,3,5-Trinitrobenzene
{EPA 8330} 2-Amino-4,6-dinitrotoluene
{EPA 8330} 2,4-Dinitrotoluene
{EPA 8330} 2,4,6-Trinitrotoluene
{EPA 8330} 2,6-Dinitrotoluene
{EPA 8330} 4-Amino-2,6-dinitrotoluene
{EPA 8330} HMX
{EPA 8330} meta-Nitrotoluene
{EPA 8330} Methyl-2,4,6-trinitrophenylnitramine
{EPA 8330} Nitrobenzene
{EPA 8330} ortho-Nitrotoluene
{EPA 8330} para-Nitrotoluene
{EPA 8330} RDX

**RADIOCHEMISTRY
Gross Alpha {EPA 9310}
Gross Beta {EPA 9310}
Radium - 228 {EPA 932
Total Alpha Radium {E 9315



End of Parameter List

STATE OF KANSAS

DEPARTMENT OF HEALTH AND ENVIRONMENT

CERTIFICATE

This is to certify that Certificate No, E-10196

for:

Paragon Analytics, Inc.
225 Commerce Drive
Fort Collins, CO 80524

has been accredited in accordance with K.S.A. 65-1,109a for performing environmental analyses for the parameters listed on the attached form. Continuous accreditation depends on successful, ongoing participation in the program. Clients are urged to verify with this agency the laboratory's certification status for particular methods and analytes.

EFFECTIVE DATE: 07/01/2002 EXPIRATION DATE: 07/31/2003

Secretary
Department of Health and Environment

Environmental Laboratory Certification Officers

LITHO. IN U.S.A.

State of Louisiana

Department of Environmental Quality

M.J. "MIKE" FOSTER, JR.
GOVERNOR

J. DALE GIVENS
SECRETARY

CERTIFIED MAIL #7002 0460 0001 3566 7104
Return Receipt Requested

August 2, 2002

AI #87806 **LELAP Certificate #04018**

Mr. Donald F. Gipple
Paragon Analytics, Inc.
229 Commerce Drive
Fort Collins, CO 80524

RE: Scope of Accreditation

Dear Mr. Gipple:

In accordance with Louisiana Administrative Code, Title 33, Part I, Subpart 3, Laboratory Accreditation, the State of Louisiana formally recognizes that this laboratory has successfully completed the accreditation process and is technically competent to perform the environmental analyses listed on the scope of accreditation detailed in the attachment. Parameters or analytes that the laboratory has applied for accreditation not included in the scope of accreditation attachment are not certified.

If you have any questions, please contact the Louisiana Environmental Laboratory Accreditation Program at (225) 765-0582.

Sincerely,

Karen D. Vanado for

Louis R. C. Johnson, Accreditation Officer
Louisiana Environmental Laboratory Accreditation Program

LRCJ:KV:pb

Attachment

Louisiana Environmental Laboratory
LELAP
Accreditation Program

Laboratory Scope of Accreditation

Organization

04018 **(970) 490-1511**
Paragon Analytics, Inc.
229 Commerce Drive
Fort Collins, CO 80524

RCRA Certification

Method Code	Method Ref	Analyte	Status	Type	AA
655	EPA 8015 (modified)	Diesel-range total petroleum hydrocarbons	Accredited	NELAP	UT
655	EPA 8015 (modified)	Gasoline range organics (GRO)	Accredited	NELAP	UT
657	Sec. 7.3 SW-846	REACTIVE CYANIDE	Accredited	NELAP	UT
657	Sec. 7.3 SW-846	Reactive sulfide	Accredited	NELAP	UT
10116606	EPA 1010	Ignitability	Accredited	NELAP	UT
10118806	EPA 1311	TOXICITY CHARACTERISTIC LEACHING PROCEDURE	Accredited	NELAP	UT
10119003	EPA 1312	SYNTHETIC PRECIPITATION LEACHING PROCEDURE	Accredited	NELAP	UT
10155201	EPA 6010	Aluminum	Accredited	NELAP	UT
10155201	EPA 6010	Antimony	Accredited	NELAP	UT
10155201	EPA 6010	Arsenic	Accredited	NELAP	UT
10155201	EPA 6010	Barium	Accredited	NELAP	UT
10155201	EPA 6010	Beryllium	Accredited	NELAP	UT
10155201	EPA 6010	Cadmium	Accredited	NELAP	UT
10155201	EPA 6010	Calcium	Accredited	NELAP	UT
10155201	EPA 6010	Chromium	Accredited	NELAP	UT
10155201	EPA 6010	Cobalt	Accredited	NELAP	UT
10155201	EPA 6010	Copper	Accredited	NELAP	UT
10155201	EPA 6010	Iron	Accredited	NELAP	UT
10155201	EPA 6010	Lead	Accredited	NELAP	UT
10155201	EPA 6010	Lithium	Accredited	NELAP	UT
10155201	EPA 6010	Magnesium	Accredited	NELAP	UT
10155201	EPA 6010	Manganese	Accredited	NELAP	UT
10155201	EPA 6010	Molybdenum	Accredited	NELAP	UT
10155201	EPA 6010	Nickel	Accredited	NELAP	UT
10155201	EPA 6010	Potassium	Accredited	NELAP	UT
10155201	EPA 6010	Selenium	Accredited	NELAP	UT
10155201	EPA 6010	Silver	Accredited	NELAP	UT
10155201	EPA 6010	Sodium	Accredited	NELAP	UT
10155201	EPA 6010	Srontium	Accredited	NELAP	UT
10155201	EPA 6010	Thallium	Accredited	NELAP	UT
10155201	EPA 6010	Tin	Accredited	NELAP	UT
10155201	EPA 6010	Vanadium	Accredited	NELAP	UT
10155201	EPA 6010	Zinc	Accredited	NELAP	UT
10162206	EPA 7196	Chromium VI	Accredited	NELAP	UT
10165603	EPA 7470	Mercury	Accredited	NELAP	UT
10166004	EPA 7471	Mercury	Accredited	NELAP	UT

Print Date 08/06/2002 10:20:09 AM

Organization

04018 **(970) 490-1511**
Paragon Analytics, Inc.
229 Commerce Drive
Fort Collins, CO 80524

RCRA Certification

Method Code	Method Ref	Analyte	Status	Type	AA
10173009	EPA 8011	1,2-Dibromo-3-chloropropane (DBCP)	Accredited	NELAP	UT
10173009	EPA 8011	1,2-Dibromoethane (EDB, Ethylene dibromide)	Accredited	NELAP	UT
10174400	EPA 8021	1,2-Dichlorobenzene	Accredited	NELAP	UT
10174400	EPA 8021	1,3-Dichlorobenzene	Accredited	NELAP	UT
10174400	EPA 8021	1,4-Dichlorobenzene	Accredited	NELAP	UT
10174400	EPA 8021	Benzene	Accredited	NELAP	UT
10174400	EPA 8021	Chlorobenzene	Accredited	NELAP	UT
10174400	EPA 8021	Ethylbenzene	Accredited	NELAP	UT
10174400	EPA 8021	m-Xylene	Accredited	NELAP	UT
10174400	EPA 8021	o-Xylene	Accredited	NELAP	UT
10174400	EPA 8021	Toluene	Accredited	NELAP	UT
10174400	EPA 8021	Volatile Organics	Accredited	NELAP	UT
10174400	EPA 8021	Xylene (total)	Accredited	NELAP	UT
10178402	EPA 8081	4,4'-DDD	Accredited	NELAP	UT
10178402	EPA 8081	4,4'-DDE	Accredited	NELAP	UT
10178402	EPA 8081	4,4'-DDT	Accredited	NELAP	UT
10178402	EPA 8081	Aldrin	Accredited	NELAP	UT
10178402	EPA 8081	alpha-BHC (alpha-Hexachlorocyclohexane)	Accredited	NELAP	UT
10178402	EPA 8081	alpha-Chlordane	Accredited	NELAP	UT
10178402	EPA 8081	beta-BHC (beta-Hexachlorocyclohexane)	Accredited	NELAP	UT
10178402	EPA 8081	delta-BHC	Accredited	NELAP	UT
10178402	EPA 8081	Dieldrin	Accredited	NELAP	UT
10178402	EPA 8081	Endosulfan I	Accredited	NELAP	UT
10178402	EPA 8081	Endosulfan II	Accredited	NELAP	UT
10178402	EPA 8081	Endosulfan sulfate	Accredited	NELAP	UT
10178402	EPA 8081	Endrin	Accredited	NELAP	UT
10178402	EPA 8081	Endrin aldehyde	Accredited	NELAP	UT
10178402	EPA 8081	gamma-BHC (Lindane, gamma-HexachlorocyclohexanE)	Accredited	NELAP	UT
10178402	EPA 8081	gamma-Chlordane	Accredited	NELAP	UT
10178402	EPA 8081	Heptachlor	Accredited	NELAP	UT
10178402	EPA 8081	Heptachlor epoxide	Accredited	NELAP	UT
10178402	EPA 8081	Methoxychlor	Accredited	NELAP	UT
10178402	EPA 8081	Organochlorine Pesticides	Accredited	NELAP	UT
10178402	EPA 8081	Toxaphene (Chlorinated camphene)	Accredited	NELAP	UT
10179007	EPA 8082	2,2', 3,3', 4,4', 5-Heptachlorobiphenyl	Accredited	NELAP	UT
10179007	EPA 8082	Aroclor-1016 (PCB-1016)	Accredited	NELAP	UT
10179007	EPA 8082	Aroclor-1221 (PCB-1221)	Accredited	NELAP	UT
10179007	EPA 8082	Aroclor-1232 (PCB-1232)	Accredited	NELAP	UT
10179007	EPA 8082	Aroclor-1242 (PCB-1242)	Accredited	NELAP	UT
10179007	EPA 8082	Aroclor-1248 (PCB-1248)	Accredited	NELAP	UT
10179007	EPA 8082	Aroclor-1254 (PCB-1254)	Accredited	NELAP	UT

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Organization

04018 **(970) 490-1511**
Paragon Analytics, Inc.
229 Commerce Drive
Fort Collins, CO 80524

RCRA Certification

Method Code	Method Ref	Analyte	Status	Type	AA
10179007	EPA 8082	Aroclor-1260 (PCB-1260)	Accredited	NELAP	UT
10179007	EPA 8082	PCBs	Accredited	NELAP	UT
10181803	EPA 8141	Azinphos-methyl (Guthion)	Accredited	NELAP	UT
10181803	EPA 8141	Chlorpyrifos	Accredited	NELAP	UT
10181803	EPA 8141	Coumaphos	Accredited	NELAP	UT
10181803	EPA 8141	Demeton-o	Accredited	NELAP	UT
10181803	EPA 8141	Demeton-s	Accredited	NELAP	UT
10181803	EPA 8141	Diazinon	Accredited	NELAP	UT
10181803	EPA 8141	Dichlorovos (DDVP, Dichlorvos)	Accredited	NELAP	UT
10181803	EPA 8141	Disulfoton	Accredited	NELAP	UT
10181803	EPA 8141	Ethoprop	Accredited	NELAP	UT
10181803	EPA 8141	Fensulfothion	Accredited	NELAP	UT
10181803	EPA 8141	Fenthion	Accredited	NELAP	UT
10181803	EPA 8141	Merphos	Accredited	NELAP	UT
10181803	EPA 8141	Methyl parathion (Parathion, methyl)	Accredited	NELAP	UT
10181803	EPA 8141	Mevinphos	Accredited	NELAP	UT
10181803	EPA 8141	Naled	Accredited	NELAP	UT
10181803	EPA 8141	Organophosphorus Pesticides	Accredited	NELAP	UT
10181803	EPA 8141	Phorate	Accredited	NELAP	UT
10181803	EPA 8141	Ronnel	Accredited	NELAP	UT
10181803	EPA 8141	Sulfotepp	Accredited	NELAP	UT
10181803	EPA 8141	Tokuthion (Prothiophos)	Accredited	NELAP	UT
10181803	EPA 8141	Trichloronate	Accredited	NELAP	UT
10183003	EPA 8151	2,4,5-T	Accredited	NELAP	UT
10183003	EPA 8151	2,4-D	Accredited	NELAP	UT
10183003	EPA 8151	2,4-DB	Accredited	NELAP	UT
10183003	EPA 8151	Dalapon	Accredited	NELAP	UT
10183003	EPA 8151	Dicamba	Accredited	NELAP	UT
10183003	EPA 8151	Dichloroprop (Dichlorprop)	Accredited	NELAP	UT
10183003	EPA 8151	Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	Accredited	NELAP	UT
10183003	EPA 8151	Herbicides	Accredited	NELAP	UT
10183003	EPA 8151	MCPA	Accredited	NELAP	UT
10183003	EPA 8151	MCPP	Accredited	NELAP	UT
10183003	EPA 8151	Silvex (2,4,5-TP)	Accredited	NELAP	UT
10184404	EPA 8260	1,1,1,2-Tetrachloroethane	Accredited	NELAP	UT
10184404	EPA 8260	1,1,1-Trichloroethane	Accredited	NELAP	UT
10184404	EPA 8260	1,1,2,2-Tetrachloroethane	Accredited	NELAP	UT
10184404	EPA 8260	1,1,2-Trichloroethane	Accredited	NELAP	UT
10184404	EPA 8260	1,1-Dichloroethane	Accredited	NELAP	UT
10184404	EPA 8260	1,1-Dichloroethylene	Accredited	NELAP	UT
10184404	EPA 8260	1,1-Dichloropropene	Accredited	NELAP	UT
10184404	EPA 8260	1,2,3-Trichlorobenzene	Accredited	NELAP	UT

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Method Code	Method Ref	Analyte	Status	Type	AA
10184404	EPA 8260	1,2,3-Trichloropropane	Accredited	NELAP	UT
10184404	EPA 8260	1,2,4-Trichlorobenzene	Accredited	NELAP	UT
10184404	EPA 8260	1,2,4-Trimethylbenzene	Accredited	NELAP	UT
10184404	EPA 8260	1,2-Dibromo-3-chloropropane (DBCP)	Accredited	NELAP	UT
10184404	EPA 8260	1,2-Dibromoethane (EDB, Ethylene dibromide)	Accredited	NELAP	UT
10184404	EPA 8260	1,2-Dichlorobenzene	Accredited	NELAP	UT
10184404	EPA 8260	1,2-Dichloroethane	Accredited	NELAP	UT
10184404	EPA 8260	1,2-Dichloropropane	Accredited	NELAP	UT
10184404	EPA 8260	1,3,5-Trimethylbenzene	Accredited	NELAP	UT
10184404	EPA 8260	1,3-Dichlorobenzene	Accredited	NELAP	UT
10184404	EPA 8260	1,3-Dichloropropane	Accredited	NELAP	UT
10184404	EPA 8260	1,4-Dichlorobenzene	Accredited	NELAP	UT
10184404	EPA 8260	1-Chlorohexane	Accredited	NELAP	UT
10184404	EPA 8260	2,2-Dichloropropane	Accredited	NELAP	UT
10184404	EPA 8260	2-Butanone (Methyl ethyl ketone, MEK)	Accredited	NELAP	UT
10184404	EPA 8260	2-Chloroethyl vinyl ether	Accredited	NELAP	UT
10184404	EPA 8260	2-Chlorotoluene	Accredited	NELAP	UT
10184404	EPA 8260	2-Hexanone	Accredited	NELAP	UT
10184404	EPA 8260	4-Chlorotoluene	Accredited	NELAP	UT
10184404	EPA 8260	4-Methyl-2-pentanone (MIBK)	Accredited	NELAP	UT
10184404	EPA 8260	Acetone	Accredited	NELAP	UT
10184404	EPA 8260	Acrolein (Propenal)	Accredited	NELAP	UT
10184404	EPA 8260	Acrylonitrile	Accredited	NELAP	UT
10184404	EPA 8260	Benzene	Accredited	NELAP	UT
10184404	EPA 8260	Bromobenzene	Accredited	NELAP	UT
10184404	EPA 8260	Bromochloromethane	Accredited	NELAP	UT
10184404	EPA 8260	Bromodichloromethane	Accredited	NELAP	UT
10184404	EPA 8260	Bromoform	Accredited	NELAP	UT
10184404	EPA 8260	Carbon disulfide	Accredited	NELAP	UT
10184404	EPA 8260	Carbon tetrachloride	Accredited	NELAP	UT
10184404	EPA 8260	Chlorobenzene	Accredited	NELAP	UT
10184404	EPA 8260	Chloroethane	Accredited	NELAP	UT
10184404	EPA 8260	Chloroform	Accredited	NELAP	UT
10184404	EPA 8260	cis & trans-1,2-Dichloroethene	Accredited	NELAP	UT
10184404	EPA 8260	cis-1,3-Dichloropropene	Accredited	NELAP	UT
10184404	EPA 8260	Dibromochloromethane	Accredited	NELAP	UT
10184404	EPA 8260	Dibromofluoromethane	Accredited	NELAP	UT
10184404	EPA 8260	Dibromomethane	Accredited	NELAP	UT
10184404	EPA 8260	Dichlorodifluoromethane	Accredited	NELAP	UT
10184404	EPA 8260	Ethylbenzene	Accredited	NELAP	UT
10184404	EPA 8260	Hexachlorobutadiene	Accredited	NELAP	UT
10184404	EPA 8260	Iodomethane (Methyl iodide)	Accredited	NELAP	UT

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Method Code	Method Ref	Analyte	Status	Type	AA
10184404	EPA 8260	Isopropylbenzene	Accredited	NELAP	UT
10184404	EPA 8260	Methyl bromide (Bromomethane)	Accredited	NELAP	UT
10184404	EPA 8260	Methyl chloride (Chloromethane)	Accredited	NELAP	UT
10184404	EPA 8260	Methyl tert-butyl ether (MTBE)	Accredited	NELAP	UT
10184404	EPA 8260	Methylene chloride	Accredited	NELAP	UT
10184404	EPA 8260	m-Xylene	Accredited	NELAP	UT
10184404	EPA 8260	Naphthalene	Accredited	NELAP	UT
10184404	EPA 8260	n-Butylbenzene	Accredited	NELAP	UT
10184404	EPA 8260	n-Propylbenzene	Accredited	NELAP	UT
10184404	EPA 8260	o-Xylene	Accredited	NELAP	UT
10184404	EPA 8260	p-Xylene	Accredited	NELAP	UT
10184404	EPA 8260	sec-Butylbenzene	Accredited	NELAP	UT
10184404	EPA 8260	Styrene	Accredited	NELAP	UT
10184404	EPA 8260	tert-Butylbenzene	Accredited	NELAP	UT
10184404	EPA 8260	Tetrachloroethylene (Perchloroethylene)	Accredited	NELAP	UT
10184404	EPA 8260	Toluene	Accredited	NELAP	UT
10184404	EPA 8260	trans-1,2-Dicloroethylene	Accredited	NELAP	UT
10184404	EPA 8260	trans-1,3-Dichloropropylene	Accredited	NELAP	UT
10184404	EPA 8260	Trichloroethene (Trichloroethylene)	Accredited	NELAP	UT
10184404	EPA 8260	Trichlorofluoromethane	Accredited	NELAP	UT
10184404	EPA 8260	Vinyl acetate	Accredited	NELAP	UT
10184404	EPA 8260	Vinyl chloride	Accredited	NELAP	UT
10184404	EPA 8260	Volatile Organics	Accredited	NELAP	UT
10184404	EPA 8260	Xylene (total)	Accredited	NELAP	UT
10185203	EPA 8270	1,2,4-Trichlorobenzene	Accredited	NELAP	UT
10185203	EPA 8270	1,2-Dichlorobenzene	Accredited	NELAP	UT
10185203	EPA 8270	1,2-Dinitrobenzene	Accredited	NELAP	UT
10185203	EPA 8270	1,3,5-Trinitrobenzene (1,3,5-TNB)	Accredited	NELAP	UT
10185203	EPA 8270	1,3-Dichlorobenzene	Accredited	NELAP	UT
10185203	EPA 8270	1,3-Dinitrobenzene (1,3-DNB)	Accredited	NELAP	UT
10185203	EPA 8270	1,4-Dichlorobenzene	Accredited	NELAP	UT
10185203	EPA 8270	1,4-Dinitrobenzene	Accredited	NELAP	UT
10185203	EPA 8270	2,3,4,6-Tetrachlorophenol	Accredited	NELAP	UT
10185203	EPA 8270	2,4,5-Trichlorophenol	Accredited	NELAP	UT
10185203	EPA 8270	2,4,6-Trichlorophenol	Accredited	NELAP	UT
10185203	EPA 8270	2,4-Dichlorophenol	Accredited	NELAP	UT
10185203	EPA 8270	2,4-Dimethylphenol	Accredited	NELAP	UT
10185203	EPA 8270	2,4-Dinitrophenol	Accredited	NELAP	UT
10185203	EPA 8270	2,4-Dinitrotoluene (2,4-DNT)	Accredited	NELAP	UT
10185203	EPA 8270	2,6-Dichlorophenol	Accredited	NELAP	UT
10185203	EPA 8270	2,6-Dinitrotoluene (2,6-DNT)	Accredited	NELAP	UT
10185203	EPA 8270	2-Chloronaphthalene	Accredited	NELAP	UT

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RCRA Certification

Method Code	Method Ref	Analyte	Status	Type	AA
10185203	EPA 8270	2-Chlorophenol	Accredited	NELAP	UT
10185203	EPA 8270	2-Methyl-4,6-dinitrophenol	Accredited	NELAP	UT
10185203	EPA 8270	2-Methylnaphthalene	Accredited	NELAP	UT
10185203	EPA 8270	2-Methylphenol (o-Cresol)	Accredited	NELAP	UT
10185203	EPA 8270	2-Nitroaniline	Accredited	NELAP	UT
10185203	EPA 8270	2-Nitrophenol	Accredited	NELAP	UT
10185203	EPA 8270	3,3'-Dichlorobenzidine	Accredited	NELAP	UT
10185203	EPA 8270	3-Methylphenol (m-Cresol)	Accredited	NELAP	UT
10185203	EPA 8270	3-Nitrotoluene	Accredited	NELAP	UT
10185203	EPA 8270	4-Bromophenyl phenyl ether	Accredited	NELAP	UT
10185203	EPA 8270	4-Chloro-3-methylphenol	Accredited	NELAP	UT
10185203	EPA 8270	4-Chloroaniline	Accredited	NELAP	UT
10185203	EPA 8270	4-Chlorophenyl phenylether	Accredited	NELAP	UT
10185203	EPA 8270	4-Methylphenol (p-Cresol)	Accredited	NELAP	UT
10185203	EPA 8270	4-Nitroaniline	Accredited	NELAP	UT
10185203	EPA 8270	4-Nitrophenol	Accredited	NELAP	UT
10185203	EPA 8270	4-Nitrotoluene	Accredited	NELAP	UT
10185203	EPA 8270	Acenaphthene	Accredited	NELAP	UT
10185203	EPA 8270	Acenaphthylene	Accredited	NELAP	UT
10185203	EPA 8270	Aniline	Accredited	NELAP	UT
10185203	EPA 8270	Anthracene	Accredited	NELAP	UT
10185203	EPA 8270	Base-Neutral-Acid Extractable Organics	Accredited	NELAP	UT
10185203	EPA 8270	Benzidine	Accredited	NELAP	UT
10185203	EPA 8270	Benzo(a)anthracene	Accredited	NELAP	UT
10185203	EPA 8270	Benzo(a)pyrene	Accredited	NELAP	UT
10185203	EPA 8270	Benzo(g,h,i)perylene	Accredited	NELAP	UT
10185203	EPA 8270	Benzo(k)fluoranthene	Accredited	NELAP	UT
10185203	EPA 8270	Benzo[b]fluoranthene	Accredited	NELAP	UT
10185203	EPA 8270	Benzoic acid	Accredited	NELAP	UT
10185203	EPA 8270	Benzyl alcohol	Accredited	NELAP	UT
10185203	EPA 8270	bis(2-Chloroethoxy)methane	Accredited	NELAP	UT
10185203	EPA 8270	bis(2-Chloroethyl) ether	Accredited	NELAP	UT
10185203	EPA 8270	bis(2-Chloroisopropyl) ether	Accredited	NELAP	UT
10185203	EPA 8270	bis(2-Ethylhexyl) phthalate (DEHP)	Accredited	NELAP	UT
10185203	EPA 8270	Butyl benzyl phthalate	Accredited	NELAP	UT
10185203	EPA 8270	Carbazole	Accredited	NELAP	UT
10185203	EPA 8270	Chrysene	Accredited	NELAP	UT
10185203	EPA 8270	Dibenz(a,h) anthracene	Accredited	NELAP	UT
10185203	EPA 8270	Dibenzofuran	Accredited	NELAP	UT
10185203	EPA 8270	Diethyl phthalate	Accredited	NELAP	UT
10185203	EPA 8270	Dimethyl phthalate	Accredited	NELAP	UT
10185203	EPA 8270	Di-n-butyl phthalate	Accredited	NELAP	UT

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Method Code	Method Ref	Analyte	Status	Type	AA
10185203	EPA 8270	Di-n-octyl phthalate	Accredited	NELAP	UT
10185203	EPA 8270	Fluoranthene	Accredited	NELAP	UT
10185203	EPA 8270	Fluorene	Accredited	NELAP	UT
10185203	EPA 8270	Hexachlorobenzene	Accredited	NELAP	UT
10185203	EPA 8270	Hexachlorobutadiene	Accredited	NELAP	UT
10185203	EPA 8270	Hexachlorocyclopentadiene	Accredited	NELAP	UT
10185203	EPA 8270	Hexachloroethane	Accredited	NELAP	UT
10185203	EPA 8270	Indeno	Accredited	NELAP	UT
10185203	EPA 8270	Isophorone	Accredited	NELAP	UT
10185203	EPA 8270	n-Nitrosodimethylamine	Accredited	NELAP	UT
10185203	EPA 8270	n-Nitrosodi-n-propylamine	Accredited	NELAP	UT
10185203	EPA 8270	n-Nitrosodiphenylamine	Accredited	NELAP	UT
10185203	EPA 8270	n-Nitrosomethylethalamine	Accredited	NELAP	UT
10185203	EPA 8270	n-Nitrosomorpholine	Accredited	NELAP	UT
10185203	EPA 8270	Pentachlorophenol	Accredited	NELAP	UT
10185203	EPA 8270	Phenanthrene	Accredited	NELAP	UT
10185203	EPA 8270	Phenol	Accredited	NELAP	UT
10185203	EPA 8270	Pyrene	Accredited	NELAP	UT
10185203	EPA 8270	Pyridine	Accredited	NELAP	UT
10187607	EPA 8310	1-Methylnaphthalene	Accredited	NELAP	UT
10187607	EPA 8310	2-Methylnaphthalene	Accredited	NELAP	UT
10187607	EPA 8310	Acenaphthene	Accredited	NELAP	UT
10187607	EPA 8310	Acenaphthylene	Accredited	NELAP	UT
10187607	EPA 8310	Anthracene	Accredited	NELAP	UT
10187607	EPA 8310	Benzo(a)anthracene	Accredited	NELAP	UT
10187607	EPA 8310	Benzo(a)pyrene	Accredited	NELAP	UT
10187607	EPA 8310	Benzo(g,h,i)perylene	Accredited	NELAP	UT
10187607	EPA 8310	Benzo(k)fluoranthene	Accredited	NELAP	UT
10187607	EPA 8310	Benzo[b]fluoranthene	Accredited	NELAP	UT
10187607	EPA 8310	Chrysene	Accredited	NELAP	UT
10187607	EPA 8310	Dibenz(a,h) anthracene	Accredited	NELAP	UT
10187607	EPA 8310	Fluoranthene	Accredited	NELAP	UT
10187607	EPA 8310	Fluorene	Accredited	NELAP	UT
10187607	EPA 8310	Indeno	Accredited	NELAP	UT
10187607	EPA 8310	Naphthalene	Accredited	NELAP	UT
10187607	EPA 8310	Phenanthrene	Accredited	NELAP	UT
10187607	EPA 8310	Polynuclear Aromatic Hydrocarbons	Accredited	NELAP	UT
10187607	EPA 8310	Pyrene	Accredited	NELAP	UT
10189807	EPA 8330	1,3,5-Trinitrobenzene (1,3,5-TNB)	Accredited	NELAP	UT
10189807	EPA 8330	1,3-Dinitrobenzene (1,3-DNB)	Accredited	NELAP	UT
10189807	EPA 8330	2,4,6-Trinitrotoluene (2,4,6-TNT)	Accredited	NELAP	UT
10189807	EPA 8330	2,4-Dinitrotoluene (2,4-DNT)	Accredited	NELAP	UT

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Method Code	Method Ref	Analyte	Status	Type	AA
10189807	EPA 8330	2,6-Dinitrotoluene (2,6-DNT)	Accredited	NELAP	UT
10189807	EPA 8330	2-Amino-4,6-dinitrotoluene (2-am-dnt)	Accredited	NELAP	UT
10189807	EPA 8330	2-Nitrotoluene	Accredited	NELAP	UT
10189807	EPA 8330	3-Nitrotoluene	Accredited	NELAP	UT
10189807	EPA 8330	4-Amino-2,6-dinitrotoluene (4-am-dnt)	Accredited	NELAP	UT
10189807	EPA 8330	4-Nitrotoluene	Accredited	NELAP	UT
10189807	EPA 8330	Methyl-2,4,6-trinitrophenylnitramine (tetryl)	Accredited	NELAP	UT
10189807	EPA 8330	Nitrobenzene	Accredited	NELAP	UT
10189807	EPA 8330	Octahydro-1,3.5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	Accredited	NELAP	UT
10189807	EPA 8330	RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)	Accredited	NELAP	UT
10196802	EPA 9040	pH	Accredited	NELAP	UT
10197805	EPA 9045	pH	Accredited	NELAP	UT
10198604	EPA 9050	Conductivity	Accredited	NELAP	UT
10199005	EPA 9056	Orthophosphate as P	Accredited	NELAP	UT
10199403	EPA 9056	Bromide	Accredited	NELAP	UT
10199403	EPA 9056	Chloride	Accredited	NELAP	UT
10199403	EPA 9056	Fluoride	Accredited	NELAP	UT
10199403	EPA 9056	Nitrate	Accredited	NELAP	UT
10199403	EPA 9056	Nitrite	Accredited	NELAP	UT
10199403	EPA 9056	Sulfate	Accredited	NELAP	UT
10200201	EPA 9060	Total organic carbon	Accredited	NELAP	UT
10201000	EPA 9070	Oil & Grease	Accredited	NELAP	UT
10201204	EPA 9071	Oil & Grease	Accredited	NELAP	UT
10204009	EPA 9095	PAINT FILTER LIQUIDS TEST	Accredited	NELAP	UT
10208205	EPA 9310	Gross-alpha	Accredited	NELAP	UT
10208205	EPA 9310	Gross-beta	Accredited	NELAP	UT
10208409	EPA 9315	Total radium	Accredited	NELAP	UT
10208603	EPA 9320	Radium-228	Accredited	NELAP	UT

CWA Certification

Method Code	Method Ref	Analyte	Status	Type	AA
10008205	EPA 150.1	pH	Accredited	NELAP	UT
10013602	EPA 200.7	Aluminum	Accredited	NELAP	UT
10013602	EPA 200.7	Antimony	Accredited	NELAP	UT
10013602	EPA 200.7	Arsenic	Accredited	NELAP	UT
10013602	EPA 200.7	Barium	Accredited	NELAP	UT
10013602	EPA 200.7	Beryllium	Accredited	NELAP	UT
10013602	EPA 200.7	Cadmium	Accredited	NELAP	UT
10013602	EPA 200.7	Calcium	Accredited	NELAP	UT
10013602	EPA 200.7	Chromium	Accredited	NELAP	UT
10013602	EPA 200.7	Cobalt	Accredited	NELAP	UT
10013602	EPA 200.7	Copper	Accredited	NELAP	UT

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LELAP
Accreditation Program

Laboratory Scope of Accreditation

Organization

04018 **(970) 490-1511**
Paragon Analytics, Inc.
229 Commerce Drive
Fort Collins, CO 80524

CWA Certification

Method Code	Method Ref	Analyte	Status	Type	AA
10013602	EPA 200.7	Iron	Accredited	NELAP	UT
10013602	EPA 200.7	Lead	Accredited	NELAP	UT
10013602	EPA 200.7	Magnesium	Accredited	NELAP	UT
10013602	EPA 200.7	Manganese	Accredited	NELAP	UT
10013602	EPA 200.7	Molybdenum	Accredited	NELAP	UT
10013602	EPA 200.7	Nickel	Accredited	NELAP	UT
10013602	EPA 200.7	Potassium	Accredited	NELAP	UT
10013602	EPA 200.7	Selenium	Accredited	NELAP	UT
10013602	EPA 200.7	Silver	Accredited	NELAP	UT
10013602	EPA 200.7	Sodium	Accredited	NELAP	UT
10013602	EPA 200.7	Thallium	Accredited	NELAP	UT
10013602	EPA 200.7	Vanadium	Accredited	NELAP	UT
10013602	EPA 200.7	Zinc	Accredited	NELAP	UT
10036609	EPA 245.1	Mercury	Accredited	NELAP	UT
10053006	EPA 300.0	Chloride	Accredited	NELAP	UT
10053006	EPA 300.0	Fluoride	Accredited	NELAP	UT
10053006	EPA 300.0	Nitrate	Accredited	NELAP	UT
10053006	EPA 300.0	Sulfate	Accredited	NELAP	UT
10054601	EPA 310.1	Alkalinity as CaCO3	Accredited	NELAP	UT
10103603	EPA 608	4,4'-DDD	Accredited	NELAP	UT
10103603	EPA 608	4,4'-DDE	Accredited	NELAP	UT
10103603	EPA 608	4,4'-DDT	Accredited	NELAP	UT
10103603	EPA 608	Aldrin	Accredited	NELAP	UT
10103603	EPA 608	alpha-BHC (alpha-Hexachlorocyclohexane)	Accredited	NELAP	UT
10103603	EPA 608	Aroclor-1016 (PCB-1016)	Accredited	NELAP	UT
10103603	EPA 608	Aroclor-1221 (PCB-1221)	Accredited	NELAP	UT
10103603	EPA 608	Aroclor-1232 (PCB-1232)	Accredited	NELAP	UT
10103603	EPA 608	Aroclor-1242 (PCB-1242)	Accredited	NELAP	UT
10103603	EPA 608	Aroclor-1248 (PCB-1248)	Accredited	NELAP	UT
10103603	EPA 608	Aroclor-1254 (PCB-1254)	Accredited	NELAP	UT
10103603	EPA 608	Aroclor-1260 (PCB-1260)	Accredited	NELAP	UT
10103603	EPA 608	beta-BHC (beta-Hexachlorocyclohexane)	Accredited	NELAP	UT
10103603	EPA 608	Chlordane (tech.)	Accredited	NELAP	UT
10103603	EPA 608	delta-BHC	Accredited	NELAP	UT
10103603	EPA 608	Dieldrin	Accredited	NELAP	UT
10103603	EPA 608	Endosulfan I	Accredited	NELAP	UT
10103603	EPA 608	Endosulfan II	Accredited	NELAP	UT
10103603	EPA 608	Endosulfan sulfate	Accredited	NELAP	UT
10103603	EPA 608	Endrin	Accredited	NELAP	UT
10103603	EPA 608	Endrin aldehyde	Accredited	NELAP	UT
10103603	EPA 608	gamma-BHC (Lindane, gamma-HexachlorocyclohexanE)	Accredited	NELAP	UT

Print Date 08/06/2002 10:20:09 AM

Organization

04018 **(970) 490-1511**
Paragon Analytics, Inc.
229 Commerce Drive
Fort Collins, CO 80524

CWA Certification

Method Code	Method Ref	Analyte	Status	Type	AA
10103603	EPA 608	Heptachlor	Accredited	NELAP	UT
10103603	EPA 608	Heptachlor epoxide	Accredited	NELAP	UT
10103603	EPA 608	Methoxychlor	Accredited	NELAP	UT
10103603	EPA 608	Toxaphene (Chlorinated camphene)	Accredited	NELAP	UT
10104402	EPA 610	Acenaphthene	Accredited	NELAP	UT
10104402	EPA 610	Acenaphthylene	Accredited	NELAP	UT
10104402	EPA 610	Anthracene	Accredited	NELAP	UT
10104402	EPA 610	Benzo(a)anthracene	Accredited	NELAP	UT
10104402	EPA 610	Benzo(a)pyrene	Accredited	NELAP	UT
10104402	EPA 610	Benzo(g,h,i)perylene	Accredited	NELAP	UT
10104402	EPA 610	Benzo(k)fluoranthene	Accredited	NELAP	UT
10104402	EPA 610	Benzo[b]fluoranthene	Accredited	NELAP	UT
10104402	EPA 610	Chrysene	Accredited	NELAP	UT
10104402	EPA 610	Dibenz(a,h) anthracene	Accredited	NELAP	UT
10104402	EPA 610	Fluoranthene	Accredited	NELAP	UT
10104402	EPA 610	Fluorene	Accredited	NELAP	UT
10104402	EPA 610	Indeno	Accredited	NELAP	UT
10104402	EPA 610	Naphthalene	Accredited	NELAP	UT
10104402	EPA 610	Phenanthrene	Accredited	NELAP	UT
10104402	EPA 610	Pyrene	Accredited	NELAP	UT
10112400	EPA 900	Gross alpha-beta	Accredited	NELAP	UT
10112400	EPA 900	Gross-alpha	Accredited	NELAP	UT
10112400	EPA 900	Gross-beta	Accredited	NELAP	UT

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
Awards the Certificate of Approval

CERTIFICATE NO.: 04018
Page 1 of 1
August 1, 2002

PARAGON ANALYTICS, INC.
225 Commerce Drive
Fort Collins, CO 80524

Agency Interest Number 83979

According to the Louisiana Administrative Code, Title 33, Part I, Subpart 3, Laboratory Accreditation, the State of Louisiana formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of the accreditation detailed below.

The laboratory agrees to perform all analyses listed on this scope of accreditation according to the Part I, Subpart 3 requirements and acknowledges that continued accreditation is dependent on successful ongoing compliance with the applicable requirements of Part I, Subpart 3. Please contact the Department of Environmental Quality, Louisiana Environmental Laboratory Accreditation Program (LELAP) to verify the laboratory's scope of accreditation and accreditation status. Accreditation by the State of Louisiana is not an endorsement or a guarantee of validity of the data generated by the laboratory.

PARAMETER	ANALYSIS METHOD	TYPE OF ACCREDITATION	PRIMARY ACCREDITING AUTHORITY	ACCREDITATION STATUS
SOLID and HAZARDOUS WASTE METHODS				
Sulprofos	EPA 8141A	NELAP	UTAH	CERTIFIED
Tetrachlorovinphos	EPA 8141A	NELAP	UTAH	CERTIFIED
1,3,5-Trichlorobenzene	EPA 8260B	NELAP	UTAH	CERTIFIED
Dichlorofluoromethane	EPA 8260B	NELAP	UTAH	CERTIFIED
Methyl isobutyl ketone (MIK)	EPA 8260B	NELAP	UTAH	CERTIFIED
4,6-Dinitro-2-methylphenol	EPA 8270C	NELAP	UTAH	CERTIFIED
Nitroaromatics and Nitramines	EPA 8330	NELAP	UTAH	CERTIFIED
Nitroglycerin	EPA 8330	NELAP	UTAH	CERTIFIED
Pentaerythrite tetranitrate (PETN)	EPA 8330	NELAP	UTAH	CERTIFIED

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY

Is hereby granting a Louisiana Environmental Laboratory Accreditation to:

Paragon Analytics, Inc.
229 Commerce Drive
Fort Collins, CO 80524

Agency Interest No. 87806

According to the Louisiana Administrative Code, Title 33, Part I, Subpart 3, LABORATORY ACCREDITATION, the State of Louisiana formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of accreditation detailed in the attachment.

The laboratory agrees to perform all analyses listed on this scope of accreditation according to the Part I, Subpart 3 requirements and acknowledges that continued accreditation is dependent on successful ongoing compliance with the applicable requirements of Part I. Please contact the Department of Environmental Quality, Louisiana Environmental Laboratory Accreditation Program (LELAP) to verify the laboratory's scope of accreditation and accreditation status. Accreditation by the State of Louisiana is not an endorsement or a guarantee of validity of the data generated by the laboratory.

To be accredited initially and maintain accreditation, the laboratory agrees to participate in two single-blind, single-concentration PT studies, where available, per year for each field of testing for which it seeks accreditation or maintains accreditation as required in LAC 33:I.4711 and NELAP Standard 2.4.1.

Louis R.C. Johnson, Accreditation Officer
Louisiana Environmental Laboratory Accreditation Program

Certificate Number: 04018
Expiration Date: June 30, 2003
Issued On: July 11, 2002

№ 1259

STATE OF MARYLAND

DEPARTMENT OF HEALTH AND MENTAL HYGIENE
LABORATORIES ADMINISTRATION

Certifies That

PARAGON ANALYTICS, INC.
225 Commerce Drive, Fort Collins, Colorado 80524

having duly met the requirements of the

Regulations Governing Laboratory Certification
And Standards Of Performance In Accordance With
The Annotated Code of Maryland,
is hereby approved as a

State Certified Water Quality Laboratory

To perform the analyses indicated on the Annual Certified Parameter List,
which must accompany this certificate.

Approved Analyses: **Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Mercury; Inorganics 1,2,3; Endrin, Lindane, Methoxychlor, Toxaphene, Chlordane, Heptachlor, Heptachlor epoxide; THM; VOC 1,2; Gross alpha, Gross beta, Radium 226, Tritium, Iodine 131, Cesium 134, Cesium 137, Cobalt 60, Uranium.**

Certification # 285

Date Issued **August 28, 2002**

Expiration Date **September 30, 2003**
(Not Transferable)

Director, Laboratories Administration

This certification is subject to unannounced laboratory inspections

CONSPICUOUSLY DISPLAY IN THE LABORATORY WITH THE ANNUAL CERTIFIED PARAMETER LIST.

KENNY C. GUINN
Governor

MICHAEL J. WILLDEN
Director

YVONNE SYLVA
Administrator

Vacant
State Health Officer

STATE OF NEVADA

DEPARTMENT OF HUMAN RESOURCES

HEALTH DIVISION

BUREAU OF LICENSURE AND CERTIFICATION

☑ Health Facilities Lab Services
1550 E. College Parkway
Suite 158
Carson City, Nevada 89706
(775) 687-4475
Fax: (775) 687-6585

☐ Health Facilities Lab Services
4220 S. Maryland Parkway
Suite 810, Building D
Las Vegas, Nevada 89119
(702) 486-6516
Fax: (702) 486-6520

☐ Emergency Medical Services
1550 E. College Parkway
Suite 152
Carson City, Nevada 89706
(775) 687-4475
Fax: (775) 687-6588

☐ Emergency Medical Services
[illegible] Elm Street
Ely, Nevada 89301
(775) 753-1154
Fax: (775) 753-4112

☐ Emergency Medical Services
[illegible]
Tonopah, Nevada 89049
(775) 482-3391
Fax: (775) 482-6175

December 23, 2002

Accepted Parameter List
CHEMISTRY/RADIOCHEMISTRY

DEBRA HENDERER
PARAGON ANALYTICS, INC
225 COMMERCE DR
FORT COLLINS CO 80524

Pursuant to regulations adopted by the State Board of Health, the State of Nevada will accept data from this laboratory for the following contaminants under the Safe Drinking Water Act. Proficiency testing sample results should be submitted prior to the expiration date listed below.

This Parameter List is effective until July 31, 2003.

Primary Inorganic Contaminants	
Alkalinity	SM2320-B
pH	150.1
Arsenic	200.7
Barium	200.7
Beryllium	200.7
Cadmium	200.7
Chromium	200.7
Copper	200.7
Nickel	200.7
Fluoride	300.0, 340.2
Mercury	245.1
Nitrate	300.0
Nitrite	300.0
Total Nitrate/Nitrite	

Organics	Method
VOCs (reg & unreg)	524.2
Trihalomethanes	524.4
Vinyl Chloride	524.2
EDB & DBCP	504.1

Secondary Inorganic Contaminants	
Calcium	200.7
Molybdenum	200.7
Orthophosphate	365.2, 300.0
Manganese	200.7
Potassium	200.7
Conductivity	120.1, 2510B
Bromide	300.0
Sulfate	300.0
Aluminum	200.7
Magnesium	200.7
T-Hardness	200.7
TDS	160.1, 2540C
Calcium Hardness	200.7
TOC	415.1
Silver	200.7
Boron	200.7
Sodium	200.7
Zinc	200.7
Vanadium	200.7
Iron	200.7
Chloride	300.0

December 23, 2002

Accepted Parameter List - Continued
CHEMISTRY/RADIOCHEMISTRY

DEBRA HENDERER
PARAGON ANALYTICS, INC
225 COMMERCE DR
FORT COLLINS CO 80524

Pesticides	Method
Chlordane	505
Endrin	505
Dieldrin	505
Aldrin	505
Lindane	505
Methoxychlor	505
Toxaphene	505
Heptachlor	505
Heptachlor Epoxide	505

Herbicides	Method
Dalapon	515.1
Dicamba	515.1
Dinoseb	515.1
2,4,5-T	515.1
2,4,5-TP	515.1
2,4-D	515.1

Radiochemistry	Method
Gamma Emitters	901.1
Strontium 90	D5811-95
Uranium	908
Radium 226	903.0
Strontium 89	D5811-95
Radium 228	904
Gross Alpha	900
Gross Beta	900
Cesium^{134}	901.1
Cesium^{137}	901.1

Summary of changes: Added Methods 310.1-Alkalinity, 340.2-Fluoride, 2510B-Conductivity, 2540C-TDS, 300.0-Chloride.

----------END OF REPORT----------

Please be advised that it is the responsibility of the laboratory to make your clientele aware of these changes. In particular it is important that the clients are aware of the loss of any previously certified parameters.

If the laboratory subcontracts samples to other laboratories, it is the responsibility of the laboratory to ensure that the contracting laboratory is Nevada certified for all contracted parameters. The clients must be made aware of any subcontracted work.

Jack H. Ruckman, Ph.D.
Laboratory Certification Officer
Nevada State Health Division

Donald E. LaFara
Laboratory Certification Officer
Nevada State Health Division

December 23, 2002
Approved

ALLEN BIAGGI, *Administrator*

(775) 687-4670

TDD 687-4678

Administration
Facsimile 687-5856

Water Pollution Control
Facsimile 687-4684

Mining Regulation and
Reclamation
Facsimile 684-5259

STATE OF NEVADA
KENNY C. GUINN
Governor

R. MICHAEL TURNIPSEED, *Director*

Waste Management
Corrective Actions
Federal Facilities

Air Quality
Water Quality Planning

Facsimile 687-6396

DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES

DIVISION OF ENVIRONMENTAL PROTECTION

333 W. Nye Lane, Room 138

Carson City, Nevada 89706

November 12, 2002

Accepted Parameter List
CHEMISTRY

DEBRA HENDERER
PARAGON ANALYTICS, INC
225 COMMERCE DR
FORT COLLINS CO 80524

Pursuant to regulations adopted by the State Environmental Commission, the State of Nevada will accept data from this laboratory for the following contaminants under the Clean Water Act. Please be advised that it is the responsibility of the laboratory to make your clientele aware of changes. **In particular it is important that the clients are aware of the loss of any previously certified parameters.** If the laboratory subcontracts samples to other laboratories, it is the responsibility of the laboratory to ensure that the contracting laboratory is Nevada certified for all contracted parameters. The clients must be made aware of any subcontracted work. Proficiency testing results should be submitted prior to the expiration date.
This certification is effective until July 31, 2003.

Metals	Method
Aluminum	200.7
Arsenic	200.7
Antimony	200.7
Barium	200.7
Beryllium	200.7
Cadmium	200.7
Chromium	200.7
Cobalt	200.7
Copper	200.7
Iron	200.7
Lead	200.7
Manganese	200.7
Mercury	245.1
Molybdenum	200.7
Nickel	200.7
Selenium	200.7
Silver	200.7
Thallium	200.7
Vanadium	200.7
Strontium	200.7
Zinc	200.7
Tin	200.7
Titanium	200.7

Minerals	Method
Fluoride	300.0
Spec. Cond.	120.1
TDS	160.1
Calcium	200.7
Magnesium	200.7
Potassium	200.7
Sodium	200.7
Chloride	300.0
Alkalinity	310.1
Sulfate	300.0
pH	150.1
Ca-Hardness	200.7
T-Hardness	200.7

Nutrients	Method
Nitrate-Nitrogen	300.0, 353.2
Orthophosphate	365.2, 300.0
Ammonia-N	350.3
Total Phosphorus	365.2

Demands	Method
TOC	415.1

Miscellaneous	Method
NFR (TSS)	160.2

Radiochemistry	Method
Alpha Total	900.0
Beta Total	900.0
Radium Total	903.0

STATE OF NEVADA
Accepted Parameter List
CHEMISTRY

November 12, 2002

DEBRA HENDERER
PARAGON ANALYTICS, INC
225 COMMERCE DR
FORT COLLINS CO 80524

PCBs/water	Method
1016/1242	608
1221	608
1232	608
1248	608
1254	608
1260	608

Organics	Method
Purgeable Aromatics	624
Purgeable Halocarbons	624
PAHs	610, 625
Herbicides	615
BNAs	625

Pesticides	Method
Aldrin	608
Methoxychlor	608
Endrin	608
Chlordane	608
DDD	608
DDE	608
DDT	608
Dieldrin	608
Heptachlor	608
H. Epoxide	608
Beta BHC	608
Alpha BHC	608
Delta BHC	608
Lindane	608
Endosulfan I, II	608
Endosulfan Sulfate	608

Summary of Parameter List Changes
Parameters Deleted: Boron
Parameters Added: Lindane, Delta BHC, Endosulfan I, II, Endosulfan Sulfate, Tin, Titanium, Vanadium,

**********END OF REPORT**********

Recommended: November 12, 2002

Donald E. LaFara
Laboratory Certification Officer
Nevada State Health Division

Approved: November 13, 2002

Tom Porta P.E., Bureau Chief
Water Quality Planning
Division of Environmental Protection

STATE OF NEVADA HEALTH DIVISION
BUREAU OF LICENSURE AND CERTIFICATION
ENVIRONMENTAL LABORATORY SERVICES
LABORATORY CERTIFICATION PROGRAM

The environmental laboratory listed on this Certificate has met the quality requirements as specified by the Nevada Administrative Code 445A and is hereby certified to conduct the analyses of water for the contaminants listed on their accepted parameter list(s) effective dates:

August 1, 2002 through July 31, 2003

PARAGON ANALYTICS
225 COMMERCE DRIVE
FORT COLLINS, CO 80524

CERTIFICATE No. CO-78-2003-36

Jack Ruckman

8-1-02

Jack Ruckman Ph.D.
Laboratory Certification Officer

Date

Don LaFara

8-1-02

Donald E. LaFara
Laboratory Certification Officer

Date

State of New Jersey

James E. McGreevey
Governor

Department of Environmental Protection

Bradley M. Campbell
Commissioner

Office of Quality Assurance
9 Ewing Street, 2nd Floor, P.O. Box 424
Trenton, New Jersey 08625
Telephone: (609) 292-3950
Facsimile: (609) 777-1774

JUL 11 2002

Paragon Analyics, Inc.
225 Commerce Drive
Fort Collins, CO 80524
Attn: Debra Scheib
Lab ID # CO003

Dear Laboratory Manager:

A Certificate and an Annual Certified Parameter List (ACPL) that reflects the current status of your facility are enclosed. If there are any discrepancies, please contact your Laboratory Certification Officer to verify information and make arrangements for a new ACPL. Effective with the receipt of this letter, your facility's certification status is valid through June 30, 2003. Both the ACPL and Certificate should be conspicuously displayed at your facility in a location on the premises that is visible to the public.

As always, we are available to discuss any comments or questions. Please do not hesitate to contact your Laboratory Certification Officer or me.

Sincerely,

Joseph F. Aiello, Chief

Enclosure(s)

New Jersey Department of Environmental Protection
National Environmental Laboratory Accreditation Program
Annual Certified Parameter List and Current Status

PARAGON ANALYTICS, INC
225 COMMERCE DRIVE
FORT COLLINS, CO 80524
Lab ID CO003

Effective Date: 07/01/2002 Expiration Date: 06/30/2003

Status	Code	Parameter	EPA	ASTM	SM18	USGS	SW846	Other	Primary Accrediting Authority
C	SDW02.02000	NITRATE	353.2						UT
C	SDW02.04000	NITRATE	300.0						UT
C	SDW02.06000	NITRITE	353.2						UT
C	SDW02.08000	NITRITE	300.0						UT
C	SDW02.14000	FLUORIDE	300.0						UT
C	SDW02.19000	SULFATE	300.0						UT
C	SDW02.20000	SODIUM	200.7						UT
C	SDW02.27000	CALCIUM	200.7						UT
C	SDW02.31120	PERCHLORATE	314.0						UT
C	SDW02.36400	SILICA	200.7						UT
C	SDW02.38000	ORTHOPHOSPHATE	300.0						UT
C	SDW03.08000	pH, HYDROGEN ION	150.1						UT
C	SDW04.03000	ALUMINUM	200.7						UT
C	SDW04.11000	ARSENIC	200.7						UT
C	SDW04.16000	BARIUM	200.7						UT
C	SDW04.20000	BERYLLIUM	200.7						UT
C	SDW04.24000	CADMIUM	200.7						UT
C	SDW04.28000	CHROMIUM	200.7						UT
C	SDW04.33000	COPPER	200.7						UT
C	SDW04.41100	MAGNESIUM	200.7						UT
C	SDW04.44000	MANGANESE	200.7						UT
C	SDW04.46000	MERCURY	245.1						UT
C	SDW04.52000	NICKEL	200.7						UT
C	SDW04.62000	SILVER	200.7						UT

Joseph F. Aiello, Chief

New Jersey Department of Environmental Protection
National Environmental Laboratory Accreditation Program
Annual Certified Parameter List and Current Status

PARAGON ANALYTICS, INC
225 COMMERCE DRIVE
FORT COLLINS, CO 80524
Lab ID CO003

Effective Date: 07/01/2002 Expiration Date: 06/30/2003

Status	Code	Parameter	EPA	ASTM	SM18	USGS	SW846	Other	Primary Accrediting Authority
C	SDW04.67000	ZINC	200.7						UT
C	SDW05.08040	CHLORDANE	505						UT
C	SDW05.08070	ENDRIN	505						UT
C	SDW05.08080	HEPTACHLOR	505						UT
C	SDW05.08090	HEPTACHLOR EPOXIDE	505						UT
C	SDW05.08120	GAMMA BHC (LINDANE)	505						UT
C	SDW05.08140	METHOXYCHLOR	505						UT
C	SDW05.08160	TOXAPHENE	505						UT
C	SDW05.08210	PCB-1016	505						UT
C	SDW05.08220	PCB-1221	505						UT
C	SDW05.08230	PCB-1232	505						UT
C	SDW05.08240	PCB-1248	505						UT
C	SDW05.08241	PCB-1242	505						UT
C	SDW05.08250	PCB-1254	505						UT
C	SDW05.08260	PCB-1260	505						UT
C	SDW05.08310	ALDRIN	505						UT
C	SDW05.08320	DIELDRIN	505						UT
C	SDW05.12010	1,2-DIBROMOETHANE (EDB)	504.1						UT
C	SDW05.12020	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	504.1						UT
C	SDW05.14010	2,4-D	515.1						UT
C	SDW05.14020	DALAPON	515.1						UT
C	SDW05.14030	DINOSEB	515.1						UT
C	SDW05.14060	2,4,5-TP (SILVEX)	515.1						UT

New Jersey Department of Environmental Protection
National Environmental Laboratory Accreditation Program
Annual Certified Parameter List and Current Status

PARAGON ANALYTICS, INC
225 COMMERCE DRIVE
FORT COLLINS, CO 80524
Lab ID CO003

Effective Date: 07/01/2002 Expiration Date: 06/30/2003

Status	Code	Parameter	EPA	ASTM	SM18	USGS	SW846	Other	Primary Accrediting Authority
C	SDW05.15020	2,4-DB	515.1						UT
C	SDW05.15030	DICAMBA	515.1						UT
C	SDW05.15050	DICHLORPROP	515.1						UT
C	SDW05.15070	2,4,5-T	515.1						UT
C	SDW06.01000	TOTAL TRIHALOMETHANES	524.2						UT
C	SDW06.01010	BROMOFORM	524.2						UT
C	SDW06.01020	CHLOROFORM	524.2						UT
C	SDW06.01030	DIBROMOCHLOROMETHANE	524.2						UT
C	SDW06.01040	DICHLOROBROMOMETHANE	524.2						UT
C	SDW06.02010	BENZENE	524.2						UT
C	SDW06.02020	CARBON TETRACHLORIDE	524.2						UT
C	SDW06.02030	CHLOROBENZENE	524.2						UT
C	SDW06.02040	1,2-DICHLOROBENZENE	524.2						UT
C	SDW06.02050	1,3-DICHLOROBENZENE	524.2						UT
C	SDW06.02060	1,4-DICHLOROBENZENE	524.2						UT
C	SDW06.02070	1,1-DICHLOROETHANE	524.2						UT
C	SDW06.02080	1,2-DICHLOROETHANE	524.2						UT
C	SDW06.02090	cis-1,2-DICHLOROETHENE	524.2						UT
C	SDW06.02100	trans-1,2-DICHLOROETHENE	524.2						UT
C	SDW06.02110	DICHLOROMETHANE (methylene chloride)	524.2						UT
C	SDW06.02120	1,2-DICHLOROPROPANE	524.2						UT
C	SDW06.02130	ETHYLBENZENE	524.2						UT
C	SDW06.02140	METHYL-TERT-BUTYL-ETHER	524.2						UT

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C	SDW06.02150	NAPHTHALENE	524.2						UT
C	SDW06.02160	STYRENE	524.2						UT
C	SDW06.02170	1,1,2,2-TETRACHLOROETHANE	524.2						UT
C	SDW06.02180	TETRACHLOROETHENE	524.2						UT
C	SDW06.02190	1,1,1-TRICHLOROETHANE	524.2						UT
C	SDW06.02200	TRICHLOROETHENE	524.2						UT
C	SDW06.02210	TOLUENE	524.2						UT
C	SDW06.02220	1,2,4-TRICHLOROBENZENE	524.2						UT
C	SDW06.02230	1,1-DICHLOROETHENE	524.2						UT
C	SDW06.02240	1,1,2-TRICHLOROETHANE	524.2						UT
C	SDW06.02250	VINYL CHLORIDE	524.2						UT
C	SDW06.02260	XYLENES (TOTAL)	524.2						UT
C	SDW06.03010	BROMOBENZENE	524.2						UT
C	SDW06.03020	BROMOCHLOROMETHANE	524.2						UT
C	SDW06.03030	BROMOMETHANE	524.2						UT
C	SDW06.03040	n-BUTYLBENZENE	524.2						UT
C	SDW06.03050	sec-BUTYLBENZENE	524.2						UT
C	SDW06.03060	tert-BUTYLBENZENE	524.2						UT
C	SDW06.03070	CHLOROETHANE	524.2						UT
C	SDW06.03080	CHLOROMETHANE	524.2						UT
C	SDW06.03090	o-CHLOROTOLUENE	524.2						UT
C	SDW06.03100	p-CHLOROTOLUENE	524.2						UT
C	SDW06.03130	DIBROMOMETHANE	524.2						UT
C	SDW06.03140	DICHLORODIFLUOROMETHANE	524.2						UT

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C	SDW06.03150	1,3-DICHLOROPROPANE	524.2						UT
C	SDW06.03160	2,2-DICHLOROPROPANE	524.2						UT
C	SDW06.03170	1,1-DICHLOROPROPENE	524.2						UT
C	SDW06.03180	cis-1,3-DICHLOROPROPENE	524.2						UT
C	SDW06.03190	trans-1,3-DICHLOROPROPENE	524.2						UT
C	SDW06.03200	HEXACHLOROBUTADIENE	524.2						UT
C	SDW06.03210	ISOPROPYLBENZENE	524.2						UT
C	SDW06.03220	p-ISOPROPYLTOLUENE	524.2						UT
C	SDW06.03230	n-PROPYLBENZENE	524.2						UT
C	SDW06.03240	1,1,1,2-TETRACHLOROETHANE	524.2						UT
C	SDW06.03250	1,2,3-TRICHLOROBENZENE	524.2						UT
C	SDW06.03251	1,3,5-TRICHLOROBENZENE	524.2						UT
C	SDW06.03260	TRICHLOROFLUOROMETHANE	524.2						UT
C	SDW06.03270	1,2,3-TRICHLOROPROPANE	524.2						UT
C	SDW06.03280	1,2,4-TRIMETHYLBENZENE	524.2						UT
C	SDW06.03300	1,3,5-TRIMETHYLBENZENE	524.2						UT
C	SDW06.03410	ACETONE	524.2						UT
C	SDW06.03420	ACRYLONITRILE	524.2						UT
C	SDW06.03440	2-BUTANONE	524.2						UT
C	SDW06.03450	CARBON DISULFIDE	524.2						UT
C	SDW06.03560	METHYL IODIDE	524.2						UT
C	SDW06.03580	4-METHYL-2-PENTANONE	524.2						UT
C	SDW07.01000	GROSS ALPHA-BETA	900.0						UT
C	SDW07.02030	RADIOACTIVE IODINE	901.1						UT

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C	SDW07.03000	CESIUM-134/137	901.1						UT
C	SDW07.03900	RADIUM-226	903.0						UT
C	SDW07.04000	RADIUM-226	903.1						UT
C	SDW07.04100	RADIUM-228	904.0						UT
C	SDW07.05000	RADIUM,TOTAL	903.0						UT
C	SDW07.08100	URANIUM	908.0						UT
C	SHW02.01000	IGNITABILITY					1010 REV 0, 9/86		UT
C	SHW02.05000	REACTIVITY					7.3.3.2, REV 3, 12/96		UT
C	SHW02.06000	REACTIVITY					7.3.4.2, REV 3, 12/96		UT
C	SHW02.06900	VOLATILE ORGANICS					1311, REV 0, 7/92		UT
C	SHW02.07000	METALS/SEMI VOLATILE ORGANICS					1311, REV 0, 7/92		UT
C	SHW02.08000	METALS/ORGANICS					1312, REV 0, 9/94		UT
C	SHW03.01000	pH, HYDROGEN ION					9040B, REV 2, 1/95		UT
C	SHW04.01000	METALS, TOTAL REC. + DISSOLVED					3005A, REV 1, 7/92		UT
C	SHW04.01500	METALS, TOTAL					3010A, REV 1, 7/92		UT
C	SHW04.03000	METALS					3050B, REV 2, 12/96		UT
C	SHW04.05000	ALUMINUM					6010B REV 2, 12/96		UT
C	SHW04.06500	ANTIMONY					6010B, REV 2, 12/96		UT
C	SHW04.09000	ARSENIC					6010B, REV 2, 12/96		UT
C	SHW04.11500	BARIUM					6010B, REV 2, 12/96		UT
C	SHW04.13500	BERYLLIUM					6010B, REV 2, 12/96		UT
C	SHW04.15100	BORON					6010B, REV 2, 12/96		UT
C	SHW04.15500	CADMIUM					6010B, REV 2, 12/96		UT
C	SHW04.17500	CALCIUM					6010B, REV 2, 12/96		UT

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C	SHW04.18500	CHROMIUM					6010B, REV 2, 12/96		UT
C	SHW04.21000	CHROMIUM (VI)					7196A, REV 1, 7/92		UT
C	SHW04.22500	COBALT					6010B, REV 2, 12/96		UT
C	SHW04.24500	COPPER					6010B, REV 2, 12/96		UT
C	SHW04.26000	IRON					6010B, REV 2, 12/96		UT
C	SHW04.27500	LEAD					6010B, REV 2, 12/96		UT
C	SHW04.29500	LITHIUM					6010B, REV 2, 12/96		UT
C	SHW04.30500	MAGNESIUM					6010B, REV 2, 12/96		UT
C	SHW04.31500	MANGANESE					6010B, REV 2, 12/96		UT
C	SHW04.33000	MERCURY, LIQUID WASTE					7470A, REV 1, 9/94		UT
C	SHW04.33500	MERCURY, SOLID WASTE					7471A, REV 1, 9/94		UT
C	SHW04.34000	MOLYBDENUM					6010B, REV 2, 12/96		UT
C	SHW04.35500	NICKEL					6010B, REV 2, 12/96		UT
C	SHW04.37000	PHOSPHORUS					6010B, REV 2, 12/96		UT
C	SHW04.38000	POTASSIUM					6010B, REV 2, 12/96		UT
C	SHW04.39000	SELENIUM					6010B, REV 2, 12/96		UT
C	SHW04.41000	SILVER					6010B, REV 2, 12/96		UT
C	SHW04.43000	SODIUM					6010B, REV 2, 12/96		UT
C	SHW04.44000	STRONTIUM					6010B, REV 2, 12/96		UT
C	SHW04.45000	THALLIUM					6010B, REV 2, 12/96		UT
C	SHW04.47100	TIN					6010B REV 2 12/96		UT
C	SHW04.47500	VANADIUM					6010B, REV 2, 12/96		UT
C	SHW04.49000	ZINC					6010B, REV 2, 12/96		UT
C	SHW05.01000	SEMIVOLATILE ORGANICS					3510C, REV 3, 12/96		UT

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C	SHW05.02000	SEMIVOLATILE ORGANICS					3520C, REV 3, 12/96		UT
C	SHW05.03000	SEMIVOLATILE ORGANICS					3540C, REV 3, 12/96		UT
C	SHW05.06000	ORGANICS					3580A, REV 1, 7/92		UT
C	SHW05.07000	VOLATILE ORGANICS					5030B, REV 2, 12/96		UT
C	SHW05.07300	VOLATILE ORGANICS LOW CONC.					5035, REV 0, 12/96		UT
C	SHW05.07310	VOLATILE ORGANICS HIGH CONC.					5035, REV0 12/96		UT
C	SHW05.12000	SEMIVOLATILE ORGANICS					3620B, REV 2, 12/96		UT
C	SHW05.13000	SEMIVOLATILE ORGANICS					3630C, REV 3, 12/96		UT
C	SHW05.14000	SEMIVOLATILE ORGANICS					3640A, REV 1, 9/94		UT
C	SHW05.16000	SEMIVOLATILE ORGANICS					3660, REV 2, 12/96		UT
C	SHW05.17000	SEMIVOLATILE ORGANICS					3665A, REV 1, 12/96		UT
C	SHW06.02010	1,2-DIBROMOETHANE					8011, REV 0, 7/92		UT
C	SHW06.02020	1,2-DIBROMO-3-CHLOROPROPANE					8011, REV 0, 7/92		UT
C	SHW06.03000	VOLATILE ORGANICS, NON HALOGEN					8015B, REV 2, 12/96		UT
C	SHW06.04010	GASOLINE RANGE ORGANIC					8015B REV2 12/96		UT
C	SHW06.04500	DIESEL RANGE ORGANIC					8015B REV2 12/96		UT
C	SHW06.05010	BENZENE					8021B, REV 2, 12/96		UT
C	SHW06.05020	CHLOROBENZENE					8021B, REV 2, 12/96		UT
C	SHW06.05030	1,2-DICHLOROBENZENE					8021B, REV 2, 12/96		UT
C	SHW06.05040	1,3-DICHLOROBENZENE					8021B, REV 2, 12/96		UT
C	SHW06.05050	1,4-DICHLOROBENZENE					8021B, REV 2, 12/96		UT
C	SHW06.05060	ETHYLBENZENE					8021B, REV 2, 12/96		UT
C	SHW06.05070	TOLUENE					8021B, REV 2, 12/96		UT
C	SHW06.05080	O-XYLENE					8021B, REV 2, 12/96		UT

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C	SHW06.05090	M-XYLENE					8021B, REV 2, 12/96		UT
C	SHW06.12010	ALDRIN					8081A, REV 1, 12/96		UT
C	SHW06.12020	ALPHA-BHC					8081A, REV 1, 12/96		UT
C	SHW06.12030	BETA-BHC					8081A, REV 1, 12/96		UT
C	SHW06.12040	DELTA-BHC					8081A, REV 1, 12/96		UT
C	SHW06.12050	GAMMA-BHC (LINDANE)					8081A, REV 1, 12/96		UT
C	SHW06.12070	ALPHA-CHLORDANE					8081A, REV 1, 12/96		UT
C	SHW06.12080	GAMMA-CHLORDANE					8081A, REV 1, 12/96		UT
C	SHW06.12090	4,4'-DDD					8081A, REV 1, 12/96		UT
C	SHW06.12120	DIELDRIN					8081A, REV 1, 12/96		UT
C	SHW06.12130	ENDOSULFAN I					8081A, REV 1, 12/96		UT
C	SHW06.12140	ENDOSULFAN II					8081A, REV 1, 12/96		UT
C	SHW06.12150	ENDOSULFAN SULFATE					8081A, REV 1, 12/96		UT
C	SHW06.12160	ENDRIN					8081A, REV 1, 12/96		UT
C	SHW06.12170	ENDRIN ALDEHYDE					8081A, REV 1, 12/96		UT
C	SHW06.12190	HEPTACHLOR					8081A, REV 1, 12/96		UT
C	SHW06.12200	HEPTACHLOR EPOXIDE					8081A, REV 1, 12/96		UT
C	SHW06.12210	METHOXYCHLOR					8081A, REV 1, 12/96		UT
C	SHW06.12220	TOXAPHENE					8081A, REV 1, 12/96		UT
C	SHW06.13110	PCB-1016					8082, REV 0, 12/96		UT
C	SHW06.13120	PCB-1221					8082, REV 0, 12/96		UT
C	SHW06.13130	PCB-1232					8082, REV 0, 12/96		UT
C	SHW06.13140	PCB-1242					8082, REV 0, 12/96		UT
C	SHW06.13150	PCB-1248					8082, REV 0, 12/96		UT

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C	SHW06.13160	PCB-1254					8082, REV 0, 12/96		UT
C	SHW06.13170	PCB-1260					8082, REV 0, 12/96		UT
C	SHW06.21010	AZINPHOS METHYL					8141A, REV 1, 9/94		UT
C	SHW06.21020	DEMETON-O					8141A, REV 1, 9/94		UT
C	SHW06.21030	DEMETON-S					8141A, REV 1, 9/94		UT
C	SHW06.21040	DIAZINON					8141A, REV 1, 9/94		UT
C	SHW06.21050	DISULFOTON					8141A, REV 1, 9/94		UT
C	SHW06.21080	PARATHION METHYL					8141A, REV 1, 9/94		UT
C	SHW06.23010	DALAPON					8151A, REV 1, 9/96		UT
C	SHW06.23020	DICAMBA					8151A, REV 1, 9/96		UT
C	SHW06.23040	2,4-D					8151A, REV 1, 9/96		UT
C	SHW06.23041	2,4-DB					8151A, REV 1, 9/96		UT
C	SHW06.23050	2,4,5-T					8151A, REV 1, 9/96		UT
C	SHW06.23060	2,4,5-TP					8151A, REV 1, 9/96		UT
C	SHW06.23063	MCPA					8151A, REV 1, 9/96		UT
C	SHW06.23064	MCPP					8151A, REV 1, 9/96		UT
C	SHW06.24110	ACENAPHTHENE					8310, REV 0, 9/86		UT
C	SHW06.24120	ACENAPHTHYLENE					8310, REV 0, 9/86		UT
C	SHW06.24130	ANTHRACENE					8310, REV 0, 9/86		UT
C	SHW06.24140	BENZO(A)ANTHRACENE					8310, REV 0, 9/86		UT
C	SHW06.24150	BENZO(A)PYRENE					8310, REV 0, 9/86		UT
C	SHW06.24160	BENZO(B)FLUORANTHENE					8310, REV 0, 9/86		UT
C	SHW06.24170	BENZO(GHI)PERYLENE					8310, REV 0, 9/86		UT
C	SHW06.24180	BENZO(K)FLUORANTHENE					8310, REV 0, 9/86		UT

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C	SHW06.24190	CHRYSENE					8310, REV 0, 9/86		UT
C	SHW06.24200	DIBENZO(A,H)ANTHRACENE					8310, REV 0, 9/86		UT
C	SHW06.24210	FLUORANTHENE					8310, REV 0, 9/86		UT
C	SHW06.24220	FLUORENE					8310, REV 0, 9/86		UT
C	SHW06.24230	INDENO(1,2,3-CD)PYRENE					8310, REV 0, 9/86		UT
C	SHW06.24240	NAPHTHALENE					8310, REV 0, 9/86		UT
C	SHW06.24250	PHENANTHRENE					8310, REV 0, 9/86		UT
C	SHW06.24260	PYRENE					8310, REV 0, 9/86		UT
C	SHW06.28010	HMX					8330, REV 0, 9/94		UT
C	SHW06.28020	RDX					8330, REV 0, 9/94		UT
C	SHW06.28030	1,3,5-TNB					8330, REV 0, 9/94		UT
C	SHW06.28040	1,3-DNB					8330, REV 0, 9/94		UT
C	SHW06.28050	TETRYL					8330, REV 0, 9/94		UT
C	SHW06.28060	NB					8330, REV 0, 9/94		UT
C	SHW06.28070	2,4,6-TRINITROTOLUENE					8330, REV 0, 9/94		UT
C	SHW06.28080	4-AMINO-2,6-DINITROTOLUENE					8330, REV 0, 9/94		UT
C	SHW06.28090	2-AMINO-4,6-DINITROTOLUENE					8330, REV 0, 9/94		UT
C	SHW06.28100	2,4-DINITROTOLUENE					8330, REV 0, 9/94		UT
C	SHW06.28110	2,6-DINITROTOLUENE					8330, REV 0, 9/94		UT
C	SHW06.28120	2-NITROTOLUENE					8330, REV 0, 9/94		UT
C	SHW06.28130	3-NITROTOLUENE					8330, REV 0, 9/94		UT
C	SHW06.28140	4-NITROTOLUENE					8330, REV 0, 9/94		UT
C	SHW07.04010	BENZENE					8260B, REV 2, 12/96		UT
C	SHW07.04020	CHLOROBENZENE					8260B, REV 2, 12/96		UT

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C	SHW07.04030	1,2-DICHLOROBENZENE					8260B, REV 2, 12/96		UT
C	SHW07.04040	1,3-DICHLOROBENZENE					8260B, REV 2, 12/96		UT
C	SHW07.04050	1,4-DICHLOROBENZENE					8260B, REV 2, 12/96		UT
C	SHW07.04060	ETHYLBENZENE					8260B, REV 2, 12/96		UT
C	SHW07.04070	TOLUENE					8260B, REV 2, 12/96		UT
C	SHW07.04080	TOTAL XYLENES					8260B, REV 2, 12/96		UT
C	SHW07.04090	BROMODICHLOROMETHANE					8260B, REV 2, 12/96		UT
C	SHW07.04100	BROMOFORM					8260B, REV 2, 12/96		UT
C	SHW07.04110	BROMOMETHANE					8260B, REV 2, 12/96		UT
C	SHW07.04120	CARBON TETRACHLORIDE					8260B, REV 2, 12/96		UT
C	SHW07.04130	CHLOROETHANE					8260B, REV 2, 12/96		UT
C	SHW07.04140	2-CHLOROETHYL VINYL ETHER					8260B, REV 2, 12/96		UT
C	SHW07.04150	CHLOROFORM					8260B, REV 2, 12/96		UT
C	SHW07.04160	CHLOROMETHANE					8260B, REV 2, 12/96		UT
C	SHW07.04170	TRANS, 1,3-DICHLOROPROPENE					8260B, REV 2, 12/96		UT
C	SHW07.04180	DIBROMOCHLOROMETHANE					8260B, REV 2, 12/96		UT
C	SHW07.04190	DICHLORODIFLUOROMETHANE					8260B, REV 2, 12/96		UT
C	SHW07.04200	1,1-DICHLOROETHANE					8260B, REV 2, 12/96		UT
C	SHW07.04210	1,2-DICHLOROETHANE					8260B, REV 2, 12/96		UT
C	SHW07.04220	1,1-DICHLOROETHENE					8260B, REV 2, 12/96		UT
C	SHW07.04230	TRANS 1,2-DICHLOROETHENE					8260B, REV 2, 12/96		UT
C	SHW07.04235	CIS 1,2-DICHLOROETHENE					8260B, REV 2, 12/96		UT
C	SHW07.04240	1,2-DICHLOROPROPANE					8260B, REV 2, 12/96		UT
C	SHW07.04250	CIS 1,3-DICHLOROPROPENE					8260B, REV 2, 12/96		UT

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C	SHW07.04260	METHYLENE CHLORIDE					8260B, REV 2, 12/96		UT
C	SHW07.04270	1,1,2,2-TETRACHLOROETHANE					8260B, REV 2, 12/96		UT
C	SHW07.04280	TETRACHLOROETHENE					8260B, REV 2, 12/96		UT
C	SHW07.04290	1,1,1-TRICHLOROETHANE					8260B, REV 2, 12/96		UT
C	SHW07.04300	1,1,2-TRICHLOROETHANE					8260B, REV 2, 12/96		UT
C	SHW07.04310	TRICHLOROETHENE					8260B, REV 2, 12/96		UT
C	SHW07.04320	TRICHLOROFLUOROMETHANE					8260B, REV 2, 12/96		UT
C	SHW07.04330	VINYL CHLORIDE					8260B, REV 2, 12/96		UT
C	SHW07.04340	ACETONE					8260B, REV 2, 12/96		UT
C	SHW07.04350	CARBON DISULFIDE					8260B, REV 2, 12/96		UT
C	SHW07.04360	2-BUTANONE					8260B, REV 2, 12/96		UT
C	SHW07.04370	2-HEXANONE					8260B, REV 2, 12/96		UT
C	SHW07.04380	4-METHYL-2-PENTANONE					8260B, REV 2, 12/96		UT
C	SHW07.04390	METHYL-TERT-BUTYL ETHER					8260B, REV 2, 12/96		UT
C	SHW07.04400	ACROLEIN					8260B, REV 2, 12/96		UT
C	SHW07.04410	ACRYLONITRILE					8260B, REV 2, 12/96		UT
C	SHW07.04500	HEXACHLOROBUTADIENE					8260B, REV 2, 12/96		UT
C	SHW07.04540	NAPTHALENE					8260C, REV 2, 12/96		UT
C	SHW07.04550	STYRENE					8260B, REV 2, 12/96		UT
C	SHW07.04560	1,1,1,2-TETRACHLOROETHANE					8260B, REV 2, 12/96		UT
C	SHW07.04570	1,2,4-TRICHLOROBENZENE					8260B, REV 2, 12/96		UT
C	SHW07.05000	SEMIVOLATILE ORGANICS					8270C, REV 3, 12/96		UT
C	SHW07.05010	N-NITROSODIPHENYLAMINE					8270C, REV 3, 12/96		UT
C	SHW07.05030	CARBAZOLE					8270C, REV 3, 12/96		UT

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C	SHW07.05040	3,3'-DICHLOROBENZIDINE					8270C, REV 3, 12/96		UT
C	SHW07.05050	4-CHLORANILINE					8270C, REV 3, 12/96		UT
C	SHW07.05060	2-NITROANILINE					8270C, REV 3, 12/96		UT
C	SHW07.05063	4-NITROANILINE					8270C, REV 3, 12/96		UT
C	SHW07.05070	2-CHLORONAPHTHALENE					8270C, REV 3, 12/96		UT
C	SHW07.05080	HEXACHLOROBENZENE					8270C, REV 3, 12/96		UT
C	SHW07.05090	HEXACHLOROBUTADIENE					8270C, REV 3, 12/96		UT
C	SHW07.05100	HEXACHLOROCYCLOPENTADIENE					8270C, REV 3, 12/96		UT
C	SHW07.05110	HEXACHLOROETHANE					8270C, REV 3, 12/96		UT
C	SHW07.05120	1,2,4-TRICHLOROBENZENE					8270C, REV 3, 12/96		UT
C	SHW07.05130	BIS (2-CHLOROETHOXY) METHANE					8270C, REV 3, 12/96		UT
C	SHW07.05132	BIS (2-CHLOROETHYL) ETHER					8270C, REV 3, 12/96		UT
C	SHW07.05140	BIS (2-CHLOROISOPROPYL) ETHER					8270C, REV 3, 12/96		UT
C	SHW07.05150	4-CHLOROPHENYL-PHENYLETHER					8270C, REV 3, 12/96		UT
C	SHW07.05160	4-BROMOPHENYL-PHENYLETHER					8270C, REV 3, 12/96		UT
C	SHW07.05170	2,4-DINITROTOLUENE					8270C, REV 3, 12/96		UT
C	SHW07.05180	2,6-DINITROTOLUENE					8270C, REV 3, 12/96		UT
C	SHW07.05190	ISOPHORONE					8270C, REV 3, 12/96		UT
C	SHW07.05200	NITROBENZENE					8270C, REV 3, 12/96		UT
C	SHW07.05210	BUTYL BENZYL PHTHALATE					8270C, REV 3, 12/96		UT
C	SHW07.05220	BIS (2-ETHYLHEXYL) PHTHALATE					8270C, REV 3, 12/96		UT
C	SHW07.05230	DIETHYL PHTHALATE					8270C, REV 3, 12/96		UT
C	SHW07.05240	DIMETHYL PHTHALATE					8270C, REV 3, 12/96		UT
C	SHW07.05250	DI-N-BUTYL PHTHALATE					8270C, REV 3, 12/96		UT

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C	SHW07.05260	DI-N-OCTYL PHTHALATE					8270C, REV 3, 12/96		UT
C	SHW07.05270	ACENAPHTHENE					8270C, REV 3, 12/96		UT
C	SHW07.05280	ANTHRACENE					8270C, REV 3, 12/96		UT
C	SHW07.05290	ACENAPHTHYLENE					8270C, REV 3, 12/96		UT
C	SHW07.05300	BENZO(A)ANTHRACENE					8270C, REV 3, 12/96		UT
C	SHW07.05310	BENZO(A)PYRENE					8270C, REV 3, 12/96		UT
C	SHW07.05320	BENZO(B)FLUORANTHENE					8270C, REV 3, 12/96		UT
C	SHW07.05330	BENZO(GHI)PERYLENE					8270C, REV 3, 12/96		UT
C	SHW07.05340	BENZO(K)FLUORANTHENE					8270C, REV 3, 12/96		UT
C	SHW07.05350	CHRYSENE					8270C, REV 3, 12/96		UT
C	SHW07.05360	DIBENZO(A,H)ANTHRACENE					8270C, REV 3, 12/96		UT
C	SHW07.05370	FLUORANTHENE					8270C, REV 3, 12/96		UT
C	SHW07.05380	FLUORENE					8270C, REV 3, 12/96		UT
C	SHW07.05390	INDENO(1,2,3-CD)PYRENE					8270C, REV 3, 12/96		UT
C	SHW07.05400	2-METHYLNAPHTHALENE					8270C, REV 3, 12/96		UT
C	SHW07.05410	NAPHTHALENE					8270C, REV 3, 12/96		UT
C	SHW07.05420	PHENANTHRENE					8270C, REV 3, 12/96		UT
C	SHW07.05430	PYRENE					8270C, REV 3, 12/96		UT
C	SHW07.05440	4-CHLORO-3-METHYL-PHENOL					8270C, REV 3, 12/96		UT
C	SHW07.05450	2-CHLOROPHENOL					8270C, REV 3, 12/96		UT
C	SHW07.05460	2,4-DICHLOROPHENOL					8270C, REV 3, 12/96		UT
C	SHW07.05470	2,4-DIMETHYLPHENOL					8270C, REV 3, 12/96		UT
C	SHW07.05480	2,4-DINITROPHENOL					8270C, REV 3, 12/96		UT
C	SHW07.05490	2-METHYL-4,6-DINITROPHENOL					8270C, REV 3, 12/96		UT

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C	SHW07.05500	2-METHYLPHENOL					8270C, REV 3, 12/96		UT
C	SHW07.05510	4-METHYLPHENOL					8270C, REV 3, 12/96		UT
C	SHW07.05520	2-NITROPHENOL					8270C, REV 3, 12/96		UT
C	SHW07.05530	4-NITROPHENOL					8270C, REV 3, 12/96		UT
C	SHW07.05540	PENTACHLOROPHENOL					8270C, REV 3, 12/96		UT
C	SHW07.05550	PHENOL					8270C, REV 3, 12/96		UT
C	SHW07.05560	2,4,5-TRICHLOROPHENOL					8270C, REV 3, 12/96		UT
C	SHW07.05570	2,4,6-TRICHLOROPHENOL					8270C, REV 3, 12/96		UT
C	SHW07.05590	3-METHYLPHENOL					8270C, REV 3, 12/96		UT
C	SHW07.05600	DIBENZOFURAN					8270C, REV 3, 12/96		UT
C	SHW07.05700	1,4-DICHLOROBENZENE					8270C, REV 3, 12/96		UT
C	SHW07.05750	PYRIDINE					8270C, REV 3 12/96		UT
C	SHW09.02000	CYANIDE TOTAL					9010B, REV 2, 12/96		UT
C	SHW09.03000	CYANIDE TOTAL, AMENABLE TO Cl2					9010B, REV 2, 12/96		UT
C	SHW09.04000	CYANIDE					9013, REV 0, 7/92		UT
C	SHW09.04100	CYANIDE TOTAL					9014, REV 0, 12/96		UT
C	SHW09.13050	SULFATE					9056, REV 0, 9/86		UT
C	SHW09.14000	pH, HYDROGEN ION, WASTE, >20% WATER					9040B, REV 2, 1/95		UT
C	SHW09.16000	pH, SOIL AND WASTE					9045C, REV 3, 1/95		UT
C	SHW09.17000	SPECIFIC CONDUCTANCE					9050A, REV 1, 12/96		UT
C	SHW09.18000	INORGANIC ANIONS					9056, REV 0, 9/94		UT
C	SHW09.19000	TOTAL ORGANIC CARBON (TOC)					9060, REV 0, 9/86		UT
C	SHW09.24100	OIL & GREASE-HEM					1664A		UT

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C	SHW09.25000	OIL & GREASE, SLUDGE-HEM					9071B, REV 2, 5/99		UT
C	SHW09.29000	FREE LIQUID					9095, REV 0, 9/86		UT
C	SHW09.29150	NITRITE					9056, REV 0, 12/96		UT
C	SHW09.30150	NITRATE					9056, REV 0, 12/96		UT
C	SHW09.30250	BROMIDE					9056, REV 0, 12/96		UT
C	SHW09.33100	CHLORIDE					9056, REV 0, 12/96		UT
C	SHW09.34150	FLUORIDE					9056, REV 0, 12/96		UT
C	SHW09.54150	ORTHOPHOSPHATE					9056, REV 0, 12/96		UT
C	SHW09.60000	GROSS ALPHA-BETA					9310, REV 0, 9/86		UT
C	SHW09.60100	ALPHA EMITTING RADIUM ISOTOPES					9315, REV 0, 9/86		UT
C	SHW09.60110	RADIUM-228					9320, REV 0, 9/86		UT
C	WPP02.01500	ALKALINITY as CaCO3	310.1						UT
C	WPP02.06000	BORON	200.7						UT
C	WPP02.07100	BROMIDE	300.0						UT
C	WPP02.08000	CALCIUM	200.7						UT
C	WPP02.11500	CHLORIDE	325.3						UT
C	WPP02.12600	CHLORIDE	300.0						UT
C	WPP02.16500	FLUORIDE	340.2						UT
C	WPP02.18100	FLUORIDE	300.0						UT
C	WPP02.20100	HARDNESS-TOTAL as CaCO3	200.7						UT
C	WPP02.24000	MAGNESIUM	200.7						UT
C	WPP02.26100	NITRATE	300.0						UT
C	WPP02.27000	NITRATE-NITRITE	353.2						UT
C	WPP02.28000	NITRITE	354.1						UT

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C	WPP02.30000	TOTAL ORGANIC CARBON (TOC)	415.1						UT
C	WPP02.31500	ORTHOPHOSPHATE	365.2						UT
C	WPP02.32100	ORTHOPHOSPHATE	300.0						UT
C	WPP02.36500	POTASSIUM	200.7						UT
C	WPP02.38000	RESIDUE-TOTAL	160.3						UT
C	WPP02.38500	RESIDUE-FILTERABLE(TDS)	160.1						UT
C	WPP02.40000	RESIDUE-VOLATILE	160.4						UT
C	WPP02.47100	SULFATE	300.0						UT
C	WPP02.47500	SULFIDE-S	376.1						UT
C	WPP03.09000	pH HYDROGEN ION	150.1						UT
C	WPP04.02000	ALUMINUM	200.7						UT
C	WPP04.04500	ANTIMONY	200.7						UT
C	WPP04.05600	ARSENIC	200.7						UT
C	WPP04.08000	BARIUM	200.7						UT
C	WPP04.11000	BERYLLIUM	200.7						UT
C	WPP04.13500	CADMIUM	200.7						UT
C	WPP04.18000	CHROMIUM	200.7						UT
C	WPP04.19500	COBALT	200.7						UT
C	WPP04.21500	COPPER	200.7						UT
C	WPP04.26500	IRON	200.7						UT
C	WPP04.28000	LEAD	200.7						UT
C	WPP04.31000	MANGANESE	200.7						UT
C	WPP04.33000	MERCURY	245.1						UT
C	WPP04.35000	MOLYBDENUM	200.7						UT

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C	WPP04.37500	NICKEL	200.7						UT
C	WPP04.45500	SELENIUM	200.7						UT
C	WPP04.48000	SILVER	200.7						UT
C	WPP04.50000	THALLIUM	200.7						UT
C	WPP04.54000	VANADIUM	200.7						UT
C	WPP04.56500	ZINC	200.7						UT
C	WPP05.02010	BENZENE	602						UT
C	WPP05.02020	CHLOROBENZENE	602						UT
C	WPP05.02030	1,2-DICHLOROBENZENE	602						UT
C	WPP05.02040	1,3-DICHLOROBENZENE	602						UT
C	WPP05.02050	1,4-DICHLOROBENZENE	602						UT
C	WPP05.02060	ETHYLBENZENE	602						UT
C	WPP05.02070	TOLUENE	602						UT
C	WPP05.02080	TOTAL XYLENES	602						UT
C	WPP05.09010	ALDRIN	608						UT
C	WPP05.09020	ALPHA-BHC	608						UT
C	WPP05.09030	BETA-BHC	608						UT
C	WPP05.09040	DELTA-BHC	608						UT
C	WPP05.09050	GAMMA-BHC	608						UT
C	WPP05.09060	CHLORDANE	608						UT
C	WPP05.09070	4,4'-DDD	608						UT
C	WPP05.09080	4,4'-DDE	608						UT
C	WPP05.09090	4,4'-DDT	608						UT
C	WPP05.09100	DIELDRIN	608						UT

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C	WPP05.09110	ENDOSULFAN I	608						UT
C	WPP05.09120	ENDOSULFAN II	608						UT
C	WPP05.09130	ENDOSULFAN SULFATE	608						UT
C	WPP05.09140	ENDRIN	608						UT
C	WPP05.09150	ENDRIN ALDEHYDE	608						UT
C	WPP05.09160	ENDRIN KETONE	608						UT
C	WPP05.09170	HEPTACHLOR	608						UT
C	WPP05.09180	HEPTACHLOR EPOXIDE	608						UT
C	WPP05.09190	METHOXYCHLOR	608						UT
C	WPP05.09200	TOXAPHENE	608						UT
C	WPP05.11010	PCB-1016	608						UT
C	WPP05.11020	PCB-1221	608						UT
C	WPP05.11030	PCB-1232	608						UT
C	WPP05.11040	PCB-1242	608						UT
C	WPP05.11050	PCB-1248	608						UT
C	WPP05.11060	PCB-1254	608						UT
C	WPP05.11070	PCB-1260	608						UT
C	WPP05.13010	ACENAPHTHENE	610						UT
C	WPP05.13020	ACENAPHTHYLENE	610						UT
C	WPP05.13030	ANTHRACENE	610						UT
C	WPP05.13040	BENZO(A)ANTHRACENE	610						UT
C	WPP05.13050	BENZO(A)PYRENE	610						UT
C	WPP05.13060	BENZO(B)FLUORANTHENE	610						UT
C	WPP05.13070	BENZO(GHI)PERYLENE	610						UT

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C	WPP05.13080	BENZO(K)FLUORANTHENE	610						UT
C	WPP05.13090	CHRYSENE	610						UT
C	WPP05.13100	DIBENZO(A,H)ANTHRACENE	610						UT
C	WPP05.13110	FLUORANTHENE	610						UT
C	WPP05.13120	FLUORENE	610						UT
C	WPP05.13130	INDENO(1,2,3-CD)PYRENE	610						UT
C	WPP05.13140	NAPHTHALENE	610						UT
C	WPP05.13150	PHENANTHRENE	610						UT
C	WPP05.13160	PYRENE	610						UT
C	WPP06.02010	BENZENE	624						UT
C	WPP06.02020	BROMODICHLOROMETHANE	624						UT
C	WPP06.02030	BROMOFORM	624						UT
C	WPP06.02040	BROMOMETHANE	624						UT
C	WPP06.02050	CARBON TETRACHLORIDE	624						UT
C	WPP06.02060	CHLOROBENZENE	624						UT
C	WPP06.02070	CHLOROETHANE	624						UT
C	WPP06.02080	2-CHLOROETHYL VINYL ETHER	624						UT
C	WPP06.02100	CHLOROMETHANE	624						UT
C	WPP06.02110	DIBROMOCHLOROMETHANE	624						UT
C	WPP06.02120	1,2-DICHLOROBENZENE	624						UT
C	WPP06.02130	1,3-DICHLOROBENZENE	624						UT
C	WPP06.02140	1,4-DICHLOROBENZENE	624						UT
C	WPP06.02160	1,2-DICHLOROETHANE	624						UT
C	WPP06.02170	1,1-DICHLOROETHENE	624						UT

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C	WPP06.02180	TRANS-1,2-DICHLOROETHENE	624						UT
C	WPP06.02190	1,2-DICHLOROPROPANE	624						UT
C	WPP06.02200	CIS-1,3-DICHLOROPROPENE	624						UT
C	WPP06.02210	TRANS-1,3-DICHLOROPROPENE	624						UT
C	WPP06.02220	ETHYLBENZENE	624						UT
C	WPP06.02230	METHYLENE CHLORIDE	624						UT
C	WPP06.02240	1,1,2,2-TETRACHLOROETHANE	624						UT
C	WPP06.02250	TETRACHLOROETHENE	624						UT
C	WPP06.02260	TOLUENE	624						UT
C	WPP06.02270	1,1,1-TRICHLOROETHANE	624						UT
C	WPP06.02280	1,1,2-TRICHLOROETHANE	624						UT
C	WPP06.02290	TRICHLOROETHENE	624						UT
C	WPP06.02300	TRICHLOROFLUOROMETHANE	624						UT
C	WPP06.02310	VINYL CHLORIDE	624						UT
C	WPP06.03010	ACENAPHTHENE	625						UT
C	WPP06.03020	ACENAPHTHYLENE	625						UT
C	WPP06.03030	ANTHRACENE	625						UT
C	WPP06.03040	BENZO(A)ANTHRACENE	625						UT
C	WPP06.03050	BENZO(B)FLUORANTHENE	625						UT
C	WPP06.03060	BENZO(K)FLUORANTHENE	625						UT
C	WPP06.03070	BENZO(A)PYRENE	625						UT
C	WPP06.03080	BENZO(GHI)PERYLENE	625						UT
C	WPP06.03090	BUTYL BENZYL PHTHALATE	625						UT
C	WPP06.03100	BIS (2-CHLOROETHYL) ETHER	625						UT

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C	WPP06.03110	BIS (2-CHLOROETHOXY)METHANE	625						UT
C	WPP06.03120	BIS (2-ETHYLHEXYL) PHTHALATE	625						UT
C	WPP06.03130	BIS (2-CHLOROISOPROPYL) ETHER	625						UT
C	WPP06.03140	4-BROMOPHENYL-PHENYL ETHER	625						UT
C	WPP06.03150	2-CHLORONAPHTHALENE	625						UT
C	WPP06.03160	4-CHLOROPHENYL-PHENYL ETHER	625						UT
C	WPP06.03170	CHRYSENE	625						UT
C	WPP06.03180	DIBENZO(A,H)ANTHRACENE	625						UT
C	WPP06.03186	DIBENZOFURAN	625						UT
C	WPP06.03190	DI-N-BUTYL PHTHALATE	625						UT
C	WPP06.03200	1,3-DICHLOROBENZENE	625						UT
C	WPP06.03210	1,2-DICHLOROBENZENE	625						UT
C	WPP06.03220	1,4-DICHLOROBENZENE	625						UT
C	WPP06.03230	3,3'-DICHLOROBENZIDINE	625						UT
C	WPP06.03240	DIETHYL PHTHALATE	625						UT
C	WPP06.03250	DIMETHYL PHTHALATE	625						UT
C	WPP06.03260	2,4-DINITROTOLUENE	625						UT
C	WPP06.03270	2,6-DINITROTOLUENE	625						UT
C	WPP06.03280	DI-N-OCTYL PHTHALATE	625						UT
C	WPP06.03290	FLUORANTHENE	625						UT
C	WPP06.03300	FLUORENE	625						UT
C	WPP06.03310	HEXACHLOROBENZENE	625						UT
C	WPP06.03330	HEXACHLOROETHANE	625						UT
C	WPP06.03340	INDENO(1,2,3-CD)PYRENE	625						UT

New Jersey Department of Environmental Protection
National Environmental Laboratory Accreditation Program
Annual Certified Parameter List and Current Status

PARAGON ANALYTICS, INC
225 COMMERCE DRIVE
FORT COLLINS, CO 80524
Lab ID CO003

Effective Date: 07/01/2002 Expiration Date: 06/30/2003

Status	Code	Parameter	EPA	ASTM	SM18	USGS	SW846	Other	Primary Accrediting Authority
C	WPP06.03518	2,4,5-TRICHLOROPHENOL	625						UT
C	WPP06.03570	ANILINE	625						UT
C	WPP06.03690	N-NITROSODIPHENYLAMINE	625						UT
C	WPP07.01000	ALDRIN	608						UT
C	WPP07.09000	alpha-BHC	608						UT
C	WPP07.11000	beta-BHC	608						UT
C	WPP07.13000	delta-BHC	608						UT
C	WPP07.15000	gamma-BHC (LINDANE)	608						UT
C	WPP07.20000	CHLORDANE (TECHNICAL)	608						UT
C	WPP07.24000	4,4'-DDD	608						UT
C	WPP07.26000	4,4'-DDE	608						UT
C	WPP07.28000	4,4'-DDT	608						UT
C	WPP07.37000	DIELDRIN	608						UT
C	WPP07.42000	ENDOSULFAN I	608						UT
C	WPP07.43000	ENDOSULFAN II	608						UT
C	WPP07.45000	ENDOSULFAN SULFATE	608						UT
C	WPP07.47000	ENDRIN	608						UT
C	WPP07.49000	ENDRIN ALDEHYDE	608						UT
C	WPP07.54000	HEPTACHLOR	608						UT
C	WPP07.56000	HEPTACHLOR EPOXIDE	608						UT
C	WPP07.62000	METHOXYCHLOR						EPA 608	UT
C	WPP07.85000	TOXAPHENE	608						UT
C	WPP09.01000	GROSS-ALPHA	900.0						UT
C	WPP09.03000	GROSS-BETA	900.0						UT

New Jersey Department of Environmental Protection
National Environmental Laboratory Accreditation Program
Annual Certified Parameter List and Current Status

PARAGON ANALYTICS, INC
225 COMMERCE DRIVE
FORT COLLINS, CO 80524
Lab ID CO003

Effective Date: 07/01/2002 Expiration Date: 06/30/2003

Status	Code	Parameter	EPA	ASTM	SM18	USGS	SW846	Other	Primary Accrediting Authority
C	WPP06.03350	ISOPHORONE	625						UT
C	WPP06.03358	METHYLNAPTHALENE	625						UT
C	WPP06.03360	NAPHTHALENE	625						UT
C	WPP06.03366	4-CHLOROANALINE	625						UT
C	WPP06.03367	2-NITROANILINE	625						UT
C	WPP06.03368	3-NITROANILINE	625						UT
C	WPP06.03369	4-NITROANILINE	625						UT
C	WPP06.03370	NITROBENZENE	625						UT
C	WPP06.03380	N-NITROSODI-N-PROPYLAMINE	625						UT
C	WPP06.03390	PHENANTHRENE	625						UT
C	WPP06.03400	PYRENE	625						UT
C	WPP06.03410	1,2,4-TRICHLOROBENZENE	625						UT
C	WPP06.03417	2-METHYLPHENOL	625						UT
C	WPP06.03418	4-METHYLPHENOL	625						UT
C	WPP06.03420	4-CHLORO-3-METHYLPHENOL	625						UT
C	WPP06.03430	2-CHLOROPHENOL	625						UT
C	WPP06.03440	2,4-DICHLOROPHENOL	625						UT
C	WPP06.03450	2,4-DIMETHYLPHENOL	625						UT
C	WPP06.03460	2,4-DINITROPHENOL	625						UT
C	WPP06.03470	2-METHYL-4,6-DINITROPHENOL	625						UT
C	WPP06.03480	2-NITROPHENOL	625						UT
C	WPP06.03490	4-NITROPHENOL	625						UT
C	WPP06.03500	PENTACHLOROPHENOL	625						UT
C	WPP06.03510	PHENOL	625						UT

New Jersey Department of Environmental Protection
National Environmental Laboratory Accreditation Program
Annual Certified Parameter List and Current Status

PARAGON ANALYTICS, INC
225 COMMERCE DRIVE
FORT COLLINS, CO 80524
Lab ID CO003

Effective Date: 07/01/2002 Expiration Date: 06/30/2003

Status	Code	Parameter	EPA	ASTM	SM18	USGS	SW846	Other	Primary Accrediting Authority
C	WPP09.05000	RADIUM-TOTAL	903.0						UT
C	WPP09.06000	RADIUM-226	903.1						UT
C	WPP09.06020	RADIUM-228	904.0						UT
C	WPP09.07000	PHOTON EMITTERS	901.1						UT
C	WPP09.09000	URANIUM	908.0						UT

Key: A Applied, C Accredited, D Dropped by Lab, S Suspended, T Temporary Certification

State of New Jersey
Department of Environmental Protection
Certifies That

PARAGON ANALYTICS, INC.

LABORATORY CERTIFICATION ID # CO003

having duly met the requirements of the
Regulations Governing The Certification Of
Laboratories And Environmental Measurements N.J.A.C. 7:18 et. seq.
and
having been found compliant with the standards approved by the
National Environmental Laboratory Accreditation Conference
is hereby approved as a
State Certified Environmental Laboratory
to perform the analyses as indicated on the Annual Certified Parameter List
which must accompany this certificate to be valid

Expiration Date June 30, 2003

NJDEP is a NELAP Recognized Accrediting Authority

Joseph F. Aiello, Chief
Office of Quality Assurance

THIS CERTIFICATE IS TO BE CONSPICUOUSLY DISPLAYED AT THE LABORATORY WITH THE ANNUAL CERTIFIED PARAMETER LIST IN A LOCATION ON THE PREMISES VISIBLE TO THE PUBLIC

NORTH DAKOTA DEPARTMENT OF HEALTH
CHEMISTRY DIVISION
2635 East Main Avenue, P.O. Box 937
Bismarck, North Dakota 58502-0937
(701)328-6140 FAX (701)328-6145

February 19, 2003

Debra Scheib
Paragon Analytics, Inc.
225 Commerce Drive
Fort Collins, CO 80524

Dear Ms. Scheib:

Your laboratory's State of Utah Department of Health Safe Drinking Water Act, Clean Water Act, and Resource Conservation and Recovery Act certifications are being recognized by the North Dakota Environmental Laboratory Certification Program (NDELCP) for the period February 1, 2003 through May 31, 2003. The scope of this recognition of certification is outlined on the enclosed certificate. The main requirements for maintaining this recognition of your laboratory's Utah certifications are (1) that I be notified, in writing, within thirty days of any changes in the status of your laboratory's Utah certifications during the effective period of this recognition of certification; and (2) that I be sent copies of the reports of your laboratory's participation in water supply, water pollution, and solid and hazardous waste proficiency test studies during the effective period of this recognition of certification. If your laboratory wishes to renew certification with North Dakota when this recognition of certification expires, an authorized representative will need to contact me to initiate the renewal process.

Anyone having questions about this recognition of your laboratory's Utah certifications by the NDELCP should call me at 701-328-6172.

Sincerely,

Errol Erickson

Errol Erickson
Laboratory Certification Officer for Chemistry Parameters

Copies to: Larry Thelen, NDSDH Municipal Facilities Division
Wayne Kern, NDSDH Waste Management Division
Marty Haroldson, NDSDH Water Quality Division

NORTH DAKOTA STATE DEPARTMENT OF HEALTH
RECOGNITION OF CERTIFICATION OR ACCREDITATION

The North Dakota State Department of Health recognizes the certification or accreditation of

Paragon Analytics, Inc. - 225 Commerce Drive - Fort Collins, Colorado
by
The State of Utah Department of Health
for
All Safe Drinking Water Act and Clean Water Act analytes for which they maintain certification by EPA approved methods from the State of Utah Department of Health, and all Resource Conservation and Recovery Act analytes for which they maintain certification by SW846 methods from the State of Utah Department of Health.

Certificate Number: R- 057

Date of issue: February 19, 2003 Expiration Date: May 31, 2003 Covers: 2/01/03 - 5/31/2003

This certificate remains the property of the North Dakota State Department of Health and may be recalled for cause, at any time, by the department. Recognition of a laboratory's certification or accreditation from another state's certification or accreditation program by the North Dakota Department of Health is not an endorsement or a guarantee of the validity or accuracy of the results reported by the laboratory.

Myra Kosse
Director, Division of Chemistry

Erol Erickson
Certification Officer

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

State Environmental Laboratory
P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677
405-702-6100

Paragon Analytics, Inc.
ID # 9422
Debra Scheib
225 Commerce Drive
Ft. Collins, CO 85024-1416
(970) 490-1511

Laboratory Certification Program
General Water Quality\Sludge Testing
Certified parameters from 9-1-2002 to 8-31-2003

Metals

ALUMINUM
ANTIMONY
ARSENIC
BARIUM
BERYLLIUM
BORON
CADMIUM
CALCIUM
CHROMIUM
COBALT
COPPER
IRON
LEAD
MAGNESIUM
MANGANESE
MERCURY
MOLYBDENUM
NICKEL
POTASSIUM
SELENIUM
SILICA
SILVER
SODIUM
THALLIUM
TIN
TITANIUM
VANADIUM
ZINC

Nutrients

NITRITE-NITROGEN
ORTHOPHOSPHATE PHOSPHORUS
TOTAL PHOSPHORUS
AMMONIA-NITROGEN
NITRATE-NITROGEN
NITRATE-NITRITE-NITROGEN

Demands

TOC

Extractable Organics

ACENAPHTHENE
ACENAPHTHYLENE
ANTHRACENE
BENZIDINE
BENZOIC ACID
BENZO(A)ANTHRACENE
BENZO(A)PYRENE
BENZO(B)FLUORANTHENE
BENZO(G,H,I)PERYLENE
BENZO(K)FLUORANTHENE
BENZYL BUTYL PHTHALATE
BIS(2-CHLOROETHOXY)METHANE
BIS(2-CHLOROETHYL)ETHER
BIS(2-ETHYLHEXYL)PHTHALATE
4-BROMOPHENYLPHENYLETHER
CARBAZOLE
4-CHLORO-3-METHYLPHENOL
2-CHLORONAPHTHALENE
2-CHLOROPHENOL
4-CHLOROPHENYL PHENYL ETHER
CHRYSENE
DIBENZO(A,H)ANTHRACENE
DIBENZOFURAN
1,2-DICHLOROBENZENE
1,3-DICHLOROBENZENE
1,4-DICHLOROBENZENE
3,3'-DICHLOROBENZIDINE
DIETHYL PHTHALATE
2,4-DICHLOROPHENOL
2,4-DIMETHYLPHENOL
DIMETHYL PHTHALATE
DI-N-BUTYL PHTHALATE
DI-N-OCTYL PHTHALATE
2,4-DINITROPHENOL
2,4-DINITROTOLUENE
2,6-DINITROTOLUENE
FLUORANTHENE
FLUORENE
HEXACHLOROBENZENE
HEXACHLOROBUTADIENE
HEXACHLOROCYCLOPENTADIENE
HEXACHLOROETHANE
INDENO(1,2,3-CD)PYRENE
ISOPHORONE
2-METHYL-4,6-DINITROPHENOL
NAPHTHALENE
NITROBENZENE
2-NITROPHENOL
4-NITROPHENOL
N-NITROSODIMETHYLAMINE
N-NITROSODI-N-PROPYLAMINE
N-NITROSODIPHENYLAMINE
PENTACHLOROPHENOL
PHENANTHRENE
PHENOL
PYRENE
1,2,3-TRICHLOROBENZENE
1,2,4-TRICHLOROBENZENE
2,3,6-TRICHLOROPHENOL
2,4,5-TRICHLOROPHENOL
2,4,6-TRICHLOROPHENOL

General Chemistry I

ALKALINITY
BROMIDE
CHLORIDE
FLUORIDE
HARDNESS
HYDROGEN ION (PH)
TOTAL RESIDUE
TOTAL DISSOLVED SOLIDS
TOTAL SUSPENDED SOLIDS
VOLATILE RESIDUE
SULFATE

General Chemistry II

TOTAL CYANIDE
CYANIDE AMENABLE TO CHLORINATION
OIL AND GREASE
SPECIFIC CONDUCTANCE
SULFIDE
HEXAVALENT-CHROMIUM

Pesticides-Herbicides-PCB's

ALDRIN
ALPHA-BHC
BETA-BHC
DELTA-BHC
GAMMA-BHC (LINDANE)
CHLORDANE
4,4'-DDD
4,4'-DDE
4,4'-DDT

Each certified laboratory shall provide a copy of this list upon request.

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

State Environmental Laboratory
P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677
405-702-6100

Paragon Analytics, Inc.
ID # 9422
Debra Scheib
225 Commerce Drive
Ft. Collins, CO 85024-1416
(970) 490-1511

Laboratory Certification Program
General Water Quality\Sludge Testing
Certified parameters from 9-1-2002 to 8-31-2003

Pesticides-Herbicides-PCB's

DIBROMOCHLOROPROPANE
ENDOSULFAN II
ENDRIN ALDEHYDE
METHOXYCHLOR
DEMETON-O
DISULFOTON
MALATHION
2,4-DB
DICHLORPROP
2,4,5-TP
PCB-1016
PCB-1242
PCB-1260
COUMAPHOS
FENSULFOTHION
MEVINPHOS
PHORATE
TRICHLORONATE

DIELDRIN
ENDOSULFAN SULFATE
HEPTACHLOR
TOXAPHENE
DEMETON-S
EPN
PARATHION METHYL
DALAPON
DINOSEB
MCPA
PCB-1221
PCB-1248
ETHYLENEDIBROMIDE (EDB)
DICHLORVOS
FENTHION
NALED
RONNEL

ENDOSULFAN I
ENDRIN
HEPTACHLOR EPOXIDE
AZINPHOS METHYL
DIAZINON
ETHION
2,4-D
DICAMBA
2,4,5-T
MCPP
PCB-1232
PCB-1254
CHLORPYRIFOS
ETHOPROP
MERPHOS
PARATHION METHYL
TOKUTHION

Purgeable Organics

ACETONE
BENZENE
BROMOFORM
CHLOROBENZENE
CHLOROMETHANE
DICHLOROBENZENE
1,4-DICHLOROBENZENE
1,2-DICHLOROETHANE
1,2-DICHLOROPROPANE
ETHYLBENZENE
1,1,2,2-TETRACHLOROETHANE
1,1,1-TRICHLOROETHANE
TRICHLOROFLUOROMETHANE

ACROLEIN
BROMODICHLOROMETHANE
CARBON TETRACHLORIDE
2-CHLOROETHYLVINYL ETHER
DIBROMOCHLOROMETHANE
1,2-DICHLOROBENZENE
DICHLORODIFLUOROMETHANE
1,1-DICHLOROETHENE
CIS-1,3-DICHLOROPROPENE
METHYLENE CHLORIDE
TETRACHLOROETHENE
1,1,2-TRICHLOROETHANE
VINYL CHLORIDE

ACRYLONITRILE
BROMOMETHANE
CHLOROETHANE
CHLOROFORM
1,2-DIBROMOETHANE (EDB)
1,3-DICHLOROBENZENE
1,1-DICHLOROETHANE
TRANS-1,2-DICHLOROETHENE
TRANS-1,3-DICHLOROPROPENE
METHYL ETHYL KETONE
TOLUENE
TRICHLOROETHENE

Radiological

TOTAL ALPHA
RADIUM-226

TOTAL BETA

TOTAL RADIUM

Hazardous Waste Characterization

WASTE IGNITABILITY
TCLP

WASTE CORROSIVITY

WASTE REACTIVITY

Each certified laboratory shall provide a copy of this list upon request.

Pennsylvania Department of Environmental Protection

P.O. Box 8454
Harrisburg, PA 17105-8454
December 31, 2002

Bureau of Office System and Services 717-705-8024

DEBRA SCHEIB
PARAGON ANALYTICS INC
225 COMMERCE DR
FORT COLLINS CO 80524

Re: Environmental Laboratory Registration

Dear Sir/Madam:

This letter acknowledges receipt of your completed registration application and fee. The Department has assigned 68-3116 to this laboratory as a registration number. This number should be used to uniquely identify this environmental laboratory on all correspondence with the Department. Your laboratory shall not use registration with the Department to imply endorsement or accreditation by the Department.

If you have questions concerning this letter, please contact Certification and Licensing Section at (717) 705-8024.

Sincerely,

Bonnie E Shenk

Bonnie E. Shenk, Chief
Certification and Licensing

STATE OF TENNESSEE
LABORATORY SERVICES
630 HART LANE
TENNESSEE DEPARTMENT OF HEALTH
NASHVILLE, TENNESSEE 37247-0801
FAX # (615) 262 - 6393

July 11, 2000

Laboratory ID number 02976

Debra Scheib
Paragon Analytics, Inc.
225 Commerce Drive
Fort Collins, CO 80524

Dear Ms. Scheib:

This is to acknowledge receipt of materials pertaining to the certification of your laboratory by the State of **Colorado**. Certification by reciprocity under the Safe Drinking Water Act is extended to the laboratory by the State of Tennessee for the parameters specified on the enclosed Certified Parameter List.

The expiration date shall be **July 11, 2003**, unless sooner withdrawn.

Results of future evaluations made by the State of **Colorado** and/or EPA such as performance evaluation reports, on-site evaluations, certifications, or changes in certification, etc., must be forwarded to this office. Should the State of **Colorado** withdraw certification of your laboratory, certification by the State of Tennessee shall likewise be revoked.

Certifications shall be in good standing upon payment of fees. The Tennessee Division of Water Supply shall be notified by copy of this letter and invoice you accordingly.

Please use the identification number **02976** when submitting analytical data or other correspondence to this office.

If you have any questions or need additional information please call me at (615) 262-6358.

Sincerely,

Ryan Casparis
Laboratory Quality Assurance

TENNESSEE CERTIFIED PARAMETER LIST

DATE July 11, 2000 LAB NAME **Paragon Analytics, Inc.**
225 Commerce Drive
Fort Collins, CO 80524
LAB NO **02976** EXPIRATION DATE **July 11, 2003**

INORGANIC CHEMICALS

C/D			C/D			C/D		
C	1005	ARSENIC	C	1010	BARIUM	C	1015	CADMIUM
C	1020	CHROMIUM	C	1024	CYANIDE	C	1025	FLUORIDE
C	1035	MERCURY	C	1036	NICKEL	C	1038	NITROGEN/NITRATE (TOTAL)
	1040	NITROGEN (as N)	C	1041	NITRITE	C	1045	SELENIUM
C	1074	ANTIMONY (TOTAL)	C	1075	BERYLLIUM (TOTAL)	C	1085	THALLIUM (TOTAL)
	1094	ASBESTOS	C	5000	LEAD			

SECONDARY STANDARDS

	1002	ALUMINUM		1017	CHLORIDE	C	1022	COPPER
	1025	FLUORIDE		1028	IRON		1032	MANGANESE
	1050	SILVER		1055	SULFATE		1089	MBAS
	1095	ZINC		1905	COLOR		1920	ODOR
	1925	PH		1930	TOTAL DISSOLVED SOLIDS			

CORROSIVITY

	1052	SODIUM		1919	HARDNESS-CALCIUM		1925	PH
	1927	TOTAL ALKALINITY		1930	TOTAL DISSOLVED SOLIDS		1993	AGRESSIVE INDEX
	1996	TEMPERATURE (%)		1997	LANGLIER INDEX			

TURBIDITY

	0100	TURBIDITY

ORGANIC CHEMICALS

C	2005	ENDRIN	C	2010	LINDANE	C	2015	METHOXYCHLOR
C	2020	TOXAPHENE	C	2031	DALAPON		2032	DIQUAT
	2033	ENDOTHALL		2034	GLYPHOSATE		2035	ADIPATES
	2036	OXOMYL (VYDATE)		2037	SIMAZINE		2039	PHTHALATES
C	2040	PICLORAM	C	2041	DINOSEB	D	2042	HEXACHLOROCYCLOPENTADIENE *
	2046	CARBOFURAN		2050	ATRAZINE		2051	ALACHLOR (LASSO)
	2063	DIOXIN	C	2065	HEPTACHLOR	C	2067	HEPTACHLOR EPOXIDE
C	2105	2,4 - D	C	2110	2,4,5 - TP SILVEX	D	2274	HEXACHLOROBENZENE *
	2306	BENZO(A)PYRENE	C	2326	PENTACHLOROPHENOL		2383	POLYCHLORINATED BIPHENYLS (PCB'S)
C	2959	CHLORDANE (TOTAL)						
C	2931	1,2 DIBROMO-3 CHLOROPROPANE (DBCP)	C	2936	ETHYLENE DIBROMIDE (EDB)			

TOTAL TRIHALOMETHANES

C	2950	TOTAL TRIHALOMETHANES

VOLATILE ORGANIC CHEMICALS (ALL)

C	####	VOLATILE ORGANIC CHEMICALS (ALL)	C	2976	VINYL CHLORIDE

UNREGULATED CHEMICALS

	2978	1,1 - DICHLOROETHANE		2993	BROMOBENZENE		2994	ISOPROPYLBENZENE
	2986	1,1,1,2-TETRACHLORORETHANE		2430	BROMOCHLOROMETHANE		2967	m-DICHLOROBENZENE
	2988	1,1,2,2-TETRACHLOROETHANE		2943	BROMODICHLORORMETHANE		2022	METHOMYL
	2410	1,1-DICHLOROPROPENE		2942	BROMOFORM		2045	METOLACHLOR
	2420	1,2,3-TRICHLOROBENZENE		2214	BROMOMETHANE		2595	METRIBUZIN
	2414	1,2,3-TRICHLOROPROPANE		2076	BUTACHLOR		2422	n-BUTYLBENZENE
	2418	1,2,4-TRIMETHYLBENZENE		2021	CARBARYL		2998	n-PROPLYBENZENE
	2424	1,3,5-TRIMETHYLBENZENE		2216	CHLOROETHANE		2248	NAPHTHALENE
	2412	1,3-DICHLOROPROPANE		2941	CHLOROFORM		2965	o - CHLOROTOLUENE
	2413	1,3-DICHLOROPROPENE		2210	CHLOROMETHANE		2966	p-CHLOROTOLUENE
	2416	2,2-DICHHLOROPROPANE		2944	DIBROMOCHLOROMETHANE		2030	p-ISOPROPYLTOLUENE
	2066	3-HYDROXYCARBOFURAN		2408	DIBROMOMETHANE		2077	PROPACHLOR
	2047	ALDICARB		2440	DICAMBA		2428	sec-BUTYLBENZENE
	2044	ALDICARB SULFONE		2212	DICHLORODIFLUOROMETHANE		1005	SULFATE
	2043	ALDICARB SULFOXIDE		2364	DIELDRIN		2426	TERT-BUTYL BENZENE
	2356	ALDRIN		2246	HEXACHLOROBUTADIENE		2218	TRICHLOROFLUOROMETHANE

RADIONUCLIDES

C	4000	GROSS ALPHA (EX: RADON,UR)	C		RADIUM 228	C	4020	RADIUM 226
C		TOTAL RADIUM	C	4100	GROSS BETA PARTICLE ACTIVITY	C	4102	TRITIUM
C		STRONTIUM 89 AND 90	C	4264	53- IODINE- 131	C	4270	55- CESIUM -134
C	4400	URANIUM	C		COBALT 60	C	4270	CESIUM -137

* Requested not to be renewed for 2000 - 2003 certification period.

LEGEND: C = "CERTIFIED"
D= DOWNGRADED TO "NOT CERTIFIED"

State of Tennessee

Department of Health

Division of Laboratory Services

Certifies That

Paragon Analytics, Inc.

Having Met the Requirements of the Regulations for the Certification of Laboratories Analyzing Drinking Water is hereby Approved as a

State Certified Laboratory

To perform the Analyses as Indicated on the Certified Parameter List For the Public Water Systems of Tennessee

Laboratory ID Number 02976 Effective Through July 11, 2003

Laboratory Certification Officer
Laboratory Services

This certification is subject to performance on Performance Evaluation Samples, laboratory inspections and payment of annual fees.

Utah Department of Health

DIVISION OF EPIDEMIOLOGY AND LABORATORY SERVICES

State of Utah

Michael O. Leavitt
Governor
Rod L. Betit
Executive Director
Charles D. Brokopp, Dr. P.H.
Director

1/3/2003

Paragon Analytics Incorporated
Donald F Gipple Director
225 Commerce Drive
Fort Collins CO 80524

ID # ATL2
Account # 3034901511

Director,

On the basis of your most recent assessment, Proficiency Testing results and continuing compliance with the ELCP requirements, the laboratory listed is certified for environmental monitoring of drinking water under the Safe Drinking Water Act and authorized to perform the following methods, for the listed analytes:

Inorganics and Metals

150.1	pH
160.1	Residue, Filterable (Gravimetric, Dried at 180-C)
200.7	Metals and Trace Elements in Water
200.7	Aluminum
200.7	Arsenic
200.7	Barium
200.7	Beryllium
200.7	Cadmium
200.7	Calcium
200.7	Chromium
200.7	Iron
200.7	Magnesium
200.7	Manganese
200.7	Molybdenum
200.7	Nickel
200.7	Potassium
200.7	Silica
200.7	Silver
200.7	Sodium
200.7	Vanadium
200.7	Zinc
2320 B	Alkalinity - Titration Method
2340 B	Hardness by Calculation (CaCO3)
245.1	Mercury
2510 B	Conductivity by Laboratory Method
2540 C	Total Dissolved Solids
300.0	Inorganic Anions In Water
300.0	Bromide
300.0	Chloride
300.0	Fluoride
300.0 A	ortho-Phosphate as P

The expiration for the laboratory's certification is 5/31/2003. The Utah Environmental Laboratory Certification Program (ELCP) encourages clients and data users to verify the most current certification letter for the authorized method. For further assistance please call 801-584-8469.

Inorganics and Metals	
310.1	Alkalinity
314.0	Perchlorate
335.1	Cyanide
335.2	Cyanide
365.2	ortho-Phosphate as P
4500 (CN-)	Cyanide
4500 (CN-) C	Total Cyanide after Distillation
4500 (CN-) E	Cyanide by Colormetric Method
4500 (CN-) G	Cyanides Amenable to Chlorination after Distillation
4500 (F-) C	Fluoride by Ion-Selective Method
4500 (P) E	ortho-Phosphate as P
5310 C	TOC by Persulfate-Ultraviolet Oxidation Method
Nitrate	
300.0	Nitrate
353.2	Nitrate
353.2	Nitrate/Nitrite
Nitrite	
300.0	Nitrite
353.2	Nitrite
354.1	Nitrite
4500 (NO2-) B	Nitrite by Colorimetric Method
Organics	
504.1	EDB and DBCP in Water
504.1	1,2-Dibromoethane (EDB, Ethylene dibromide)
504.1	1,2-Dibromo-3-chloropropane (DBCP)
505	Organohalide Pesticides and PCBs
505	Aldrin
505	Chlordane [Total]
505	alpha-Chlorodane
505	gamma-Chlordane
505	Dieldrin
505	Endrin
505	Heptachlor
505	Heptachlor Epoxide
505	Lindane (gamma--Hexachlorocyclohexane, gamma-BHC)
505	Methoxychlor
505	Toxaphene [Chlorinated camphene]
515.1	Chlorinated Acids In Water
515.1	2,4-D
515.1	Dalapon
515.1	Dicamba
515.1	Dinoseb [2-Sec-butyl-4,6-dinitrophenol, DNBP]
515.1	2,4,5-TP (Silvex)
515.1	2,4-DB
515.1	Dichloroprop [Dichlorprop]
515.1	2,4,5-T
524.2	Purgeable Organic Compounds In Water
524.2	Benzene
524.2	Bromobenzene
524.2	Bromochloromethane
524.2	Bromodichloromethane [Dichlorobromomethane]
524.2	Bromoform

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Organics

524.2	Bromomethane [Methyl bromide]
524.2	n-Butylbenzene
524.2	sec-Butylbenzene
524.2	tert-Butylbenzene
524.2	Carbon Tetrachloride
524.2	Chlorobenzene
524.2	Chloroethane
524.2	Chloroform
524.2	Chloromethane [Methyl chloride]
524.2	2-Chlorotoluene
524.2	4-Chlorotoluene
524.2	Chlorodibromomethane
524.2	Dibromomethane
524.2	1,3-Dichlorobenzene
524.2	1,4-Dichlorobenzene
524.2	Dichlorodifluoromethane
524.2	1,1-Dichloroethane
524.2	1,2-Dichloroethane
524.2	1,1-Dichloroethene
524.2	cis-1,2-Dichloroethene
524.2	1,3-Dichloropropane
524.2	2,2-Dichloropropane
524.2	1,1-Dichloropropene
524.2	cis-1,3-Dichloropropene
524.2	trans-1,3-Dichloropropene [-pylene]
524.2	Ethylbenzene
524.2	4-Isopropyltoluene
524.2	Naphthalene
524.2	n-Propylbenzene
524.2	Styrene
524.2	1,1,1,2-Tetrachloroethane
524.2	1,1,2,2-Tetrachloroethane
524.2	Tetrachloroethene [-ethylene, Perchloroethylene]
524.2	1,2,3-Trichlorobenzene
524.2	1,2,4-Trichlorobenzene
524.2	1,1,1-Trichloroethane
524.2	1,1,2-Trichloroethane
524.2	Trichloroethene [-ethylene]
524.2	1,2,3-Trichloropropane
524.2	1,2,4-Trimethylbenzene
524.2	1,3,5-Trimethylbenzene
524.2	Vinyl Chloride
524.2	Total Triholamethanes
524.2	Methyl Tert-Butyl Ether (MTBE)
524.2	Trichlorotrifluoroethane
524.2	1,2-Dibromoethane (EDB, Ethylene dibromide)
524.2	1,2-Dibromo-3-chloropropane (DBCP)
524.2	meta-Xylene
524.2	ortho-Xylene
524.2	para-Xylene
524.2	Acetone
524.2	Acrylonitrile

Organics	
524.2	2-Butanone [Methyl ethyl ketone, MEK]
524.2	Carbon Disulfide
524.2	Methyl Iodide
524.2	4-Methyl-2-pentanone (MIBK)
Pb/Cu	
200.7	Copper
Radionuclides	
900.0	Gross Alpha
900.0	Gross Beta
901.1	Cesium 134
901.1	Gamma Emitting Radionuclidies in Drinking Water
903.0	Alpha-Emitting Radium Isotopes in Drinking Water
903.0	Radium 226
903.0	Total Radium
903.1	Radium 226 in Drinking Water Radon Emanation Technique
904.0	Radium 228 in Drinking Water Radiochemical Technique
906.0	Tritium in Drinking Water Liquid Scintillation Technique
D-3972-90	Uranium Alpha Spectrometry Technique
Sulfates	
300.0	Sulfate

The effective date of this certificate letter is: 6/1/2002.

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Respectfully,

Charles Brokopp, Dr. P.H.
Director

Utah Department of Health

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1/3/2003

Paragon Analytics Incorporated
Donald F Gipple Director
225 Commerce Drive
Fort Collins CO 80524

ID # ATL2
Account # 3034901511

Director,

On the basis of your most recent assessment, Proficiency Testing results and continuing compliance with the ELCP requirements, the laboratory listed is certified for environmental monitoring of non-potable water under the Clean Water Act and authorized to perform the following methods, for the listed analytes:

Inorganics and Metals

120.1	Conductance (Specific Conductance, umhos at 25-C)
150.1	pH (Electometric)
160.1	Residue, Filterable (Gravimetric, Dried at 180-C)
160.3	Residue, Total (Gravimetric, Dried at 103-105-C)
160.4	Residue, Volatile (Gravimetric, Ignition at 550-C)
1664	Oil & Grease and Total Petroleum Hydrocarbons
200.7	Metals and Trace Elements in Water
200.7	Aluminum
200.7	Antimony
200.7	Arsenic
200.7	Barium
200.7	Beryllium
200.7	Boron
200.7	Cadmium
200.7	Calcium
200.7	Chromium
200.7	Cobalt
200.7	Copper
200.7	Iron
200.7	Lead
200.7	Lithium
200.7	Magnesium
200.7	Manganese
200.7	Molybdenum
200.7	Nickel
200.7	Phosporus
200.7	Potassium
200.7	Selenium
200.7	Silica
200.7	Silver
200.7	Sodium

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Inorganics and Metals

200.7	Strontium
200.7	Thallium
200.7	Tin
200.7	Titanium
200.7	Vanadium
200.7	Zinc
200.7	Hardness
300.0	Inorganic Anions In Water By Ion Chromatography
300.0	Bromide
300.0	Chloride
300.0	Fluoride
300.0	Nitrate
300.0	Nitrite
300.0	ortho-Phosphate
300.0	Sulfate
310.1	Alkalinity (Titrimetric, pH 4.5)
325.3	Chloride (Titrimetric, Mercuric Nitrate)
335.1	Cyanides, Amenable To Chlorination (Titrimetric;Spectrophotometric)
335.2	Cyanide, Total (Titrimetric; Spectrophotometric)
340.2	Fluoride (Potentiometric, Ion Selective Electrode)
350.1	Nitrogen, Ammonia (Colorimetric, Automated Phenate)
3500 (Cr) D	Chromium (Colorimetric)
353.2	Nitrogen, Nitrate-Nitrite (Colorimetric, Automated, Cadmium Reduction)
354.1	Nitrogen, Nitrite (Spectrophotometric)
365.2	Phosphorous, All Forms (Colorimetric, Ascorbic Acid, Single Reagent)
376.1	Sulfide (Titrimetric, Iodine)
415.1	Organic Carbon, Total (Combustion Or Oxidation)
4500 (NH3) H	Nitrogen (Ammonia) (Phenate, Automated)
5310 C	Total Organic Carbon (Persulfate-Ultraviolet Oxidation)

Organics

602	Purgeable Aromatics
602	Benzene
602	Chlorobenzene
602	1,2-Dichlorobenzene
602	1,3-Dichlorobenzene
602	1,4-Dichlorobenzene
602	Ethylbenzene
602	Toluene
602	Methyl-tert-Butyl Ether (MTBE)
602	Xylenes, Total
608	Organochlorine Pesticides and Polychlorinated Biphenyls
608	Aldrin
608	alpha-BHC
608	beta-BHC
608	delta-BHC
608	gamma-BHC (Lindane)
608	Chlordane (Technical)
608	4,4'-DDD
608	4,4'-DDE
608	4,4'-DDT
608	Dieldrin
608	Endosulfan I

Organics

608	Endosulfan II
608	Endosulfan Sulfate
608	Endrin
608	Endrin Aldehyde
608	Endrin Ketone
608	Heptachlor
608	Heptachlor Epoxide
608	Methoxychlor
608	Toxaphene
608	Aroclor 1016
608	Aroclor 1221
608	Aroclor 1242
608	Aroclor 1248
608	Aroclor 1260
610	Polynuclear Aromatic Hydrocarbons
610	Acenaphthene
610	Acenaphthylene
610	Benzo(a)anthracene
610	Benzo(a)pyrene
610	Benzo(b)fluoranthene
610	Benzo(k)fluoranthene
610	Benzo(g,h,i)perylene
610	Chrysene
610	Dibenz(a,h)anthracene
610	Fluoranthene
610	Fluorene
610	Indeno(1,2,3-cd)pyrene
610	Naphthalene
610	Phenanthrene
610	Pyrene
614	Organophosphorous Pesticides in Wastewater by Gas Chromatography
614	Azinphos Methyl
614	Demeton
614	Diazinon
614	Disulfoton
614	Parathion Methyl
615	Chlorinated Herbicides in Industrial and Municipal Wastewater
615	2,4-D
615	Dalapon
615	2,4-DB
615	Dicamba
615	Dichlorprop
615	Dinoseb
615	MCPA
615	MCPP
615	2,4,5-T
615	2,4,5-TP (Silvex)
624	Purgeables
624	Acrolein
624	Acrylonitrile
624	Benzene
624	Bromodichloromethane

Organics

624	Bromoform
624	Carbon Tetrachloride
624	Chlorobenzene
624	Chloroethane
624	2-Chloroethylvinyl Ether
624	Chloroform
624	Chloromethane
624	Dibromochloromethane
624	1,2-Dibromo-3-chloropropane (DBCP)
624	1,2-Dibromoethane (EDB)
624	Dibromomethane
624	1,2-Dichlorobenzene
624	1,3-Dichlorobenzene
624	1,1-Dichloroethane
624	1,2-Dichloroethane
624	trans-1,2-Dichloroethane
624	1,2-Dichloropropane
624	cis-1,3-Dichloropropane
624	trans-1,3-Dichloropropane
624	Ethylbenzene
624	Methylene Chloride
624	1,1,1,2-Tetrachloroethane
624	1,1,2,2-Tetrachloroethane
624	Tetrachloroethylene
624	Toluene
624	1,1,1-Trichloroethane
624	1,1,2-Trichloroethane
624	Trichloroethene
624	Trichlorofluoromethane
624	Vinyl Chloride
624	Xylenes, total
625	Base/Neutrals and Acids
625	Acenaphthene
625	Acenaphthylene
625	Aniline
625	Azobenzene
625	Benzidine
625	Benzo(a)anthracene
625	Benzo(b)fluoranthene
625	Benzo(k)fluoranthene
625	Benzo(g,h,i)perylene
625	Benzo(a)pyrene
625	Benzyl alcohol
625	Benzyl Butyl Phthalate
625	bis(2-Chloroethyl)ether
625	bis(2-Chloroethoxy)methane
625	bis(2-Ethylhexyl)phthalate
625	bis(2-Chloroisopropyl)ether
625	4-Chloroaniline
625	2-Chloronaphthalene
625	4-Chlorophenyl Phenyl Ether
625	Chrysene

Organics

625	Dibenzofuran
625	Di-n-butylphthalate
625	1,2-Dichlorobenzene
625	1,3-Dichlorobenzene
625	3,3'-Dichlorobenzidine
625	Diethyl phthalate
625	Dimethyl phthalate
625	2,4-Dinitrotoluene
625	2,6-Dinitrotoluene
625	Di-n-octylphthalate
625	Fluoranthene
625	Fluorene
625	Hexachlorobutadiene
625	Hexachlorocyclopentadiene
625	Hexachloroethane
625	Indeno(1,2,3-cd)pyrene
625	2-Methylnaphthalene
625	2-Methylphenol
625	3-Methylphenol
625	4-Methylphenol
625	m-Nitroaniline
625	o-Nitroaniline
625	p-Nitroaniline
625	Nitrobenzene
625	N-Nitrosodimethylamine
625	N-Nitrosodi-n-propylamine
625	N-Nitrosodiphenylamine
625	Phenanthrene
625	Pyrene
625	1,2,4-Trichlorobenzene
625	4-Chloro-3-methylphenol
625	2-Chlorophenol
625	2,4-Dichlorophenol
625	2,4-Dimethylphenol
625	2,4-Dinitrophenol
625	4-Nitrophenol
625	Pentachlorophenol
625	Phenol
625	2,4,5-Trichlorophenol
625	2,4,6-Trichlorophenol

Radiological

900.0	Gross Alpha and Gross Beta Radioactivity
900.0	Gross Alpha
900.0	Gross Beta
901.1	Photon Emitters
903.0	Radium
903.0	radium-226
903.1	radium-226
904.0	radium-228

The effective date of this certificate letter is: 6/1/2002.

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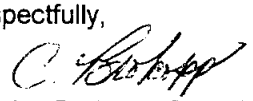
Respectfully,



Charles Brokopp, Dr. P.H.
Director

Utah Department of Health

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Paragon Analytics Incorporated
Donald F Gipple Director
225 Commerce Drive
Fort Collins CO 80524

ID # ATL2
Account # 3034901511

Director,

On the basis of your most recent assessment, Proficiency Testing results and continuing compliance with the ELCP requirements, the laboratory listed is certified for environmental monitoring of solid and chemical materials under the Resource Conservation and Recovery Act and authorized to perform the following methods, for the listed analytes:

Characteristics	
1010	Ignitability
1311	Toxicity Characteristic Leaching Procedure Metals
1311	Toxicity Characteristic Leaching Procedure Semi-Volatiles
1311	Toxicity Characteristic Leaching Procedure Volatiles
1312	Synthetic Precipitation Leaching Procedure (TCLP Approval)
Sec 7.3.3	Reactive Cyanide
Sec 7.3.4	Reactive Sulfide
Sec 8.3	Reactivity
Inorganics	
1664	Oil & Grease
9010 B	Cyanide Distillation Procedure
9013	Cyanide Extraction Procedure for Solids and Oils
9014	Cyanide
9040 B	pH
9045 C	Soil and Waste pH
9050 A	Specific Conductance
9056	Bromide
9056	Chloride
9056	Fluoride
9056	Nitrate
9056	Nitrite
9056	Phosphate
9056	Sulfates
9060	Total Organic Carbon
9070	Total Recoverable Oil and Grease
9071 B	Oil and Grease Extraction Method for Sludge and Sediment Samples
9095 A	Paint Filter Liquids Test
Metal Digestion	
3005 A	Acid Digestion Total Recoverable or Dissolved Metals
3010 A	Acid Digestion for Total Metals

The expiration for the laboratory's certification is 5/31/2003. The Utah Environmental Laboratory Certification Program (ELCP) encourages clients and data users to verify the most current certification letter for the authorized method. For further assistance please call 801-584-8469.

Bureau of Laboratory Improvement • 46 North Medical Drive • Salt Lake City, Utah 84113-1105
Telephone: (801) 584-4869 • Fax: (801) 584-8501 • http://hlunix.hl.state.ut.us/els/labimp

Metal Digestion	
3050 B	Acid Digestion of Sediments, Sludges and Soils
3060 A	Alkaline Digestion for Hexavalent Chromium
Metals	
6010 B	Aluminum
6010 B	Antimony
6010 B	Arsenic
6010 B	Barium
6010 B	Beryllium
6010 B	Boron
6010 B	Cadmium
6010 B	Calcium
6010 B	Chromium
6010 B	Cobalt
6010 B	Copper
6010 B	Iron
6010 B	Lead
6010 B	Lithium
6010 B	Magnesium
6010 B	Manganese
6010 B	Molybdenum
6010 B	Nickel
6010 B	Phosphorus
6010 B	Potassium
6010 B	Selenium
6010 B	Silica
6010 B	Silicon
6010 B	Silver
6010 B	Sodium
6010 B	Strontium
6010 B	Thallium
6010 B	Tin
6010 B	Titanium
6010 B	Vanadium
6010 B	Zinc
7196 A	Chromium, Hexavalent
7470 A	Mercury
7471 A	Mercury
Organic Cleanup	
3620 B	Florisil Cleanup
3630 C	Silica Gel Cleanup
3640 A	Gel Permeation Cleanup
3660 B	Sulfur Cleanup
3665 A	Sulfuric Acid/Permanganate Cleanup
Organic Extraction	
3510 C	Separatory Funnel Liquid-Liquid Extractions
3520 C	Continuous Liquid-Liquid Extraction
3540 C	Soxhlet Extraction
3580 A	Waste Dilution
Organic Instrumentation	
8011	1,2-Dibromo-3-chloropropane (DBCP)
8011	1,2-Dibromoethane (EDB, Ethylene dibromide)
8011	EDB and DBCP by Microextraction and Gas Chromatography

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Organic Instrumentation

8015 B	Diesel Range Organics (DROs)
8015 B	Gasoline Range Organics (GROs)
8015 B	Nonhalogenated Organics Using GC/FID
8021 B	1,2-Dichlorobenzene
8021 B	1,3-Dichlorobenzene
8021 B	1,4-Dichlorobenzene
8021 B	Aromatic and Halogenated Volatiles
8021 B	Benzene
8021 B	Chlorobenzene
8021 B	Ethylbenzene
8021 B	meta-Xylene
8021 B	Methyl-t-Butyl Ether (MTBE)
8021 B	ortho-Xylene
8021 B	para-Xylene
8021 B	Toluene
8021 B	Xylenes, Total
8081 A	4,4'-DDD
8081 A	4,4'-DDE
8081 A	4,4'-DDT
8081 A	Aldrin
8081 A	alpha-BHC(alpha-hexachlorocyclohexane)
8081 A	alpha-Chlordane
8081 A	beta-BHC(beta-hexachlorocyclohexane)
8081 A	delta-BHC(delta-hexachlorocyclohexane)
8081 A	Dieldrin
8081 A	Endosulfan I
8081 A	Endosulfan II
8081 A	Endosulfan sulfate
8081 A	Endrin
8081 A	Endrin Aldehyde
8081 A	Endrin Ketone
8081 A	gamma-BHC (Lindane, gamma-hexachlorocyclohexane)
8081 A	gamma-Chlordane
8081 A	Heptachlor
8081 A	Heptachlor Epoxide
8081 A	Methoxychlor
8081 A	Organochlorine Pesticides
8081 A	Toxaphene [Chlorinated camphene]
8082	Aroicor-1016 [PCB-1016]
8082	Aroicor-1221 PCB-1221]
8082	Aroicor-1232 [PCB-1232]
8082	Aroicor-1242 [PCB-1242]
8082	Aroicor-1248 [PCB-1248]
8082	Aroicor-1254 [PCB-1254]
8082	Aroicor-1260 [PCB-1260]
8082	PCBs
8141 A	Azinphos methyl (Guthion)
8141 A	Bolstar (Sulprofos)
8141 A	Chlorpyrifos
8141 A	Coumaphos
8141 A	Demeton-o
8141 A	Demeton-s

Organic Instrumentation

8141 A	Dichlorovos [DDVP]
8141 A	Disulfoton
8141 A	Ethoprop
8141 A	Fensulfothion
8141 A	Fenthion
8141 A	Merphos
8141 A	Mevinphos
8141 A	Naled
8141 A	Organophosphorus Compounds
8141 A	Parathion, methyl
8141 A	Phorate
8141 A	Tetrachlorvinphos [Stirophos, Gardona]
8141 A	Tokuthion [Prothiophos]
8141 A	Trichloronate
8151 A	2,4,5-T
8151 A	2,4,5-TP (Silvex)
8151 A	2,4-D
8151 A	2,4-DB
8151 A	Chlorinated Herbicides
8151 A	Dalapon
8151 A	Dicamba
8151 A	Dichlorprop(Dichloroprop)
8151 A	Dinoseb (DNBP, 2-sec-butyl-4,6-dinitrophenol)
8151 A	MCPA
8151 A	MCPP
8260 B	1,1,1,2-Tetrachloroethane
8260 B	1,1,1-Trichloroethane
8260 B	1,1,2,2-Tetrachloroethane
8260 B	1,1,2-Trichloroethane
8260 B	1,1-Dichloroethane
8260 B	1,1-Dichloroethylene (-ethene)
8260 B	1,1-Dichloropropene
8260 B	1,2,3-Trichlorobenzene
8260 B	1,2,3-Trichloropropane
8260 B	1,2,4-Trichlorobenzene
8260 B	1,2,4-Trimethylbenzene
8260 B	1,2-Dibromo-3-chloropropane (DBCP)
8260 B	1,2-Dibromoethane (EDB, Ethylene dibromide)
8260 B	1,2-Dichlorobenzene
8260 B	1,2-Dichloroethane
8260 B	1,2-Dichloropropane
8260 B	1,3,5-TCB
8260 B	1,3,5-Trimethylbenzene
8260 B	1,3-Dichlorobenzene
8260 B	1,3-Dichloropropane
8260 B	1,4-Dichlorobenzene
8260 B	1-Chlorohexane
8260 B	2,2-Dichloropropane
8260 B	2-Chloroethyl Vinyl Ether
8260 B	2-Chlorotoluene
8260 B	2-Hexanone
8260 B	4-Chlorotoluene

Organic Instrumentation

8260 B	4-Methyl-2-pentanone (MIBK, Isopropylacetone, Hexone)
8260 B	Acetone
8260 B	Acrolein (Propenal)
8260 B	Acrylonitrile
8260 B	Benzene
8260 B	Bromobenzene
8260 B	Bromochloromethane
8260 B	Bromodichloromethane
8260 B	Bromoform
8260 B	Carbon Disulfide
8260 B	Carbon Tetrachloride
8260 B	Chlorobenzene
8260 B	Chlorodibromomethane [Dibromochloromethane]
8260 B	Chloroethane
8260 B	Chloroform
8260 B	cis-1,2-Dichloroethene (-ethylene)
8260 B	cis-1,3-dichloropropene
8260 B	Dibromomethane
8260 B	Dichlorodifluoromethane
8260 B	Dichlorofluoromethane
8260 B	Ethylbenzene
8260 B	Hexachlorobutadiene
8260 B	Iodomethane (Methyl iodide)
8260 B	Isopropylbenzene
8260 B	meta-Xylene
8260 B	Methyl bromide [Bromomethane]
8260 B	Methyl chloride [Chloromethane]
8260 B	Methyl Ethyl Ketone (MEK, 2-Butanone)
8260 B	Methyl Isobutyl Ketone
8260 B	Methyl-t-Butyl Ether (MTBE)
8260 B	Methylene Chloride
8260 B	n-Butylbenzene
8260 B	n-Propylbenzene
8260 B	Naphthalene
8260 B	ortho-Xylene
8260 B	p-Isopropyltoluene
8260 B	para-Xylene
8260 B	sec-Butylbenzene
8260 B	Styrene
8260 B	tert-Butylbenzene
8260 B	Tetrachloroethylene (Perchloroethylene -ethene)
8260 B	Toluene
8260 B	trans-1,2-Dichloroethylene (-ethene)
8260 B	trans-1,3-Dichloropropylene (-propene)
8260 B	Trichloroethene (Trichloroethylene)
8260 B	Trichlorofluoromethane
8260 B	Vinyl Acetate
8260 B	Vinyl Chloride
8260 B	Volatile Organic Compounds
8260 B	Xylenes, Total
8270 C	1,2,4-Trichlorobenzene
8270 C	1,2-Dichlorobenzene

The expiration for the laboratory's certification is 5/31/2003. The Utah Environmental Laboratory Certification Program (ELCP) encourages clients and data users to verify the most current certification letter for the authorized method. For further assistance please call 801-584-8469.

Organic Instrumentation

8270 C	1,3-Dichlorobenzene
8270 C	1,4-Dichlorobenzene
8270 C	2,3,4,6-Tetrachlorophenol
8270 C	2,4,5-Trichlorophenol
8270 C	2,4,6-Trichlorophenol
8270 C	2,4-Dichlorophenol
8270 C	2,4-Dimethylphenol
8270 C	2,4-Dinitrophenol
8270 C	2,4-Dinitrotoluene (2,4-DNT)
8270 C	2,6-Dinitrotoluene (2,6-DNT)
8270 C	2-Chloronaphthalene
8270 C	2-Chlorophenol
8270 C	2-Methyl-4,6-dinitrophenol
8270 C	2-Methylnaphthalene
8270 C	2-Methylphenol (o-cresol, 2-Hydroxytoluene)
8270 C	2-Nitroaniline
8270 C	2-Nitrophenol
8270 C	3,3'-Dichlorobenzidine
8270 C	3-Methylphenol (m-cresol, 3-Hydroxytoluene)
8270 C	3-Nitroaniline
8270 C	4,6-Dinitro-2-methylphenol
8270 C	4-Bromophenyl Phenyl Ether
8270 C	4-Chloro-3-methylphenol
8270 C	4-Chloroaniline
8270 C	4-Chlorophenyl Phenyl Ether
8270 C	4-Methylphenol (p-cresol, 4-Hydroxytoluene)
8270 C	4-Nitroaniline
8270 C	4-Nitrophenol
8270 C	Acenaphthene
8270 C	Acenaphthylene
8270 C	Aniline
8270 C	Anthracene
8270 C	Benzidine
8270 C	Benzo(a)anthracene
8270 C	Benzo(a)pyrene
8270 C	Benzo(b)fluoranthene
8270 C	Benzo(g,h,i)perylene
8270 C	Benzo(k)fluoranthene
8270 C	Benzoic Acid
8270 C	Benzyl alcohol
8270 C	bis(2-chloroethoxy)methane
8270 C	bis(2-Chloroethyl)ether
8270 C	bis(2-chloroisopropyl)ether
8270 C	bis(2-Ethylhexyl) phthalate (DEHP)
8270 C	Butyl Benzyl Phthalate
8270 C	Carbazole
8270 C	Chrysene
8270 C	Di-n-butyl phthalate
8270 C	Dibenzo(a,h)anthracene
8270 C	Dibenzofuran
8270 C	Diethyl Phthalate
8270 C	Dimethyl Phthalate

Organic Instrumentation

8270 C	Fluoranthene
8270 C	Fluorene
8270 C	Hexachlorobenzene
8270 C	Hexachlorocyclopentadiene
8270 C	Hexachloroethane
8270 C	Indeno(1,2,3-cd)pyrene
8270 C	Isophorone
8270 C	n-Nitroso-di-n-Propylamine
8270 C	n-Nitrosodimethylamine
8270 C	n-Nitrosodiphenylamine
8270 C	Naphthalene
8270 C	Nitrobenzene
8270 C	Pentachlorophenol
8270 C	Phenanthrene
8270 C	Phenol
8270 C	Pyrene
8270 C	Pyridine
8270 C	Semivolatile Organic Compounds
8310	1-Methylnaphthalene
8310	2-Methylnaphthalene
8310	Acenaphthene
8310	Acenaphthylene
8310	Anthracene
8310	Benzo(a)anthracene
8310	Benzo(a)pyrene
8310	Benzo(b)fluoranthene
8310	Benzo(g,h,i)perylene
8310	Benzo(k)fluoranthene
8310	Chrysene
8310	Dibenzo(a,h)anthracene
8310	Fluoranthene
8310	Fluorene
8310	Indeno(1,2,3-c,d)pyrene
8310	Naphthalene
8310	Phenanthrene
8310	Polynuclear Aromatic Hydrocarbons
8310	Pyrene
8330	1,3,5-Trinitrobenzene (1,3,5-TNB)
8330	1,3-Dinitrobenzene (1,3-DNB)
8330	2,4,6-Trinitrotoluene (2,4,6-TNT)
8330	2,4-Dinitrotoluene (2,4-DNT)
8330	2,6-Dinitrotoluene (2,6-DNT)
8330	2-Amino-4,6-Dinitrotoluene (2-Am-DNT)
8330	2-Nitrotoluene (2-NT)
8330	3-Nitrotoluene (3-NT)
8330	4-Amino-2,6-Dinitrotoluene (4-Am-DNT)
8330	4-Nitrotoluene (4-NT)
8330	Hexahydro-1, 3, 5-tritro-1, 3, 5-triazine (RDX)
8330	Methyl-2,4,6-Trinitrophenylnitramine (TETRYL)
8330	Nirtoaromatics and Nitramines
8330	Nitrobenzene
8330	Nitroglycerin

Organic Instrumentation

8330	Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine (HMX)
8330	Pentaerythrite tetranitrate (PETN)

Radiochemistry

9310	Gross Alpha and Gross Beta
9315	Alpha Emit Radium Isotope
9320	Radium 228

Volatile Organic Preparation

5030 B	Purge-and-Trap for Aqueous Samples
5035	Purge-and-Trap and Extraction for Volatile Organics

The effective date of this certificate letter is: 6/1/2002.

The analytes by method which a laboratory is authorized to perform at any given time will be those indicated in the most recent certificate letter. The most recent certification letter supersedes all previous certification or authorization letters. It is the certified laboratory's responsibility to review this letter for discrepancies. The certified laboratory must document any discrepancies in this letter and send notice to this bureau within 15 days of receipt. This certificate letter will be recalled in the event your laboratory's certification is revoked.

Respectfully,

C Brokopp

Charles Brokopp, Dr. P.H.
Director

STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

Post Office Box 488 • Manchester, Washington 98353-0488 • (360) 895-6144

March 13, 2003

Ms. Debra Scheib
Paragon Analytics, Incorporated
225 Commerce Drive
Fort Collins, CO 80524-1416

Dear Ms. Scheib:

Thank you for sending us your application for renewal of accreditation. Enclosed are your new Certificate and Scope of Accreditation for the year beginning February 3, 2003. Next year please send your application out at least two weeks before the expiration date of February 2 to avoid a lapse in your accreditation.

We have revised your Scope of Accreditation based upon a review of your application for renewal, your U.S. Army Corps of Engineers Scope, your Utah NELAP Scope, and your proficiency testing (PT) results for the past year. Included in the PT review were your all of your ERA WP, WS, and RAD studies and your MAPEP studies.

No changes were necessary due to PT results. Direct accreditation was granted for the newly ASTM method for Sr 89 and Sr 90 based on satisfactory PT results and prior favorable assessment of your capability for the performance of these tests.

To maintain your accreditation status, you must: annually submit a renewal application and appropriate fees to the Fiscal Office; report significant equipment and personnel changes as they occur; submit any updates of the lab's quality assurance manual; and participate in performance evaluation studies for applicable parameters semiannually. Also, you must keep us informed of your progress in the renewal of your accreditation with Utah NELAP and the U.S. Army Corps of Engineers. Please forward all documentation of your forthcoming audit and responses, as well as your new Certificate and Scope of Accreditation.

Thank you for participating in Ecology's Environmental Laboratory Accreditation Program. If you have any questions regarding your accreditation, you may call Lee Fearon in our office at (360) 895-6146.

Sincerely,

Perry F. Brake, Chemist
Lab Accreditation Section Manager

PFB:LCF:lcf
Enclosures: 1. Certificate of Accreditation
2. Scope of Accreditation

The State of Washington Department of Ecology

This is to certify that

Paragon Analytics, Inc.
Fort Collins, CO

has complied with provisions set forth in Chapter 173-50 WAC and is hereby recognized by the Department of Ecology as an ACCREDITED LABORATORY for the analytical parameters listed on the accompanying Scope of Accreditation. This certificate is effective February 3, 2003, and shall expire February 2, 2004.

Witnessed under my hand on March 13, 2003.

Perry F. Brake, Chemist
Lab Accreditation Section Manager

Lab Accreditation Number
C086

Scope of Accreditation

Paragon Analytics, Inc.

Fort Collins, CO

is accredited by the State of Washington Department of Ecology to perform analyses for the parameters listed below using the analytical methods indicated. This Scope of Accreditation may apply to any of the following matrix types: non-potable water, drinking water, solid and chemical materials, and air and emissions. Accreditation for all parameters is final unless indicated otherwise in a note. Accreditation is for the latest version of a method unless otherwise specified in a note. EPA refers to the U.S. Environmental Protection Agency. SM refers to American Public Health Association's publication, Standard Methods for the Examination of Water and Wastewater, 18th, 19th or 20th Edition, unless otherwise noted. ASTM stands for the American Society for Testing and Materials. PSEP stands for Puget Sound Estuary Program. Other references are detailed in the notes section.

Matrix Type/Parameter Name	Reference	Method Number	Notes
Non-potable Water			
Nitrate + Nitrite	EPA	353.2	
pH	EPA	150.1	
Total Organic Carbon	EPA	415.1	
Gamma Emitting Isotopes	EPA	901.1	2,3
Radium 226	EPA	903.1	
Strontium 89	ASTM	D5811-95M	4
Strontium 90	ASTM	D5811-95M	4
Tritium	EPA	906.0	
Uranium, Total	ASTM	D3972-90	
Solid and Chemical Materials			
Chloride	EPA	9056	
Chromium, Hexavalent	EPA	7196	
Cyanide, Total	EPA	9014(7.2)	
Cyanides, Amenable to Chlorination	EPA	9014	
Fluoride	EPA	9056	
Nitrate	EPA	9056	
Nitrate + Nitrite	EPA	9056	
Nitrite	EPA	9056	

Matrix Type/Parameter Name	Reference	Method Number	Notes
Orthophosphate	EPA	9056	
Sulfate	EPA	9056	
Total Organic Carbon	EPA	9060	
Aluminum	EPA	6010	
Antimony	EPA	6010	
Arsenic	EPA	6010	
Barium	EPA	6010	
Beryllium	EPA	6010	
Cadmium	EPA	6010	
Calcium	EPA	6010	
Chromium	EPA	6010	
Cobalt	EPA	6010	
Copper	EPA	6010	
Iron	EPA	6010	
Lead	EPA	6010	
Magnesium	EPA	6010	
Manganese	EPA	6010	
Mercury	EPA	7470	
Mercury	EPA	7471	
Molybdenum	EPA	6010	
Nickel	EPA	6010	
Potassium	EPA	6010	
Selenium	EPA	6010	
Silver	EPA	6010	
Sodium	EPA	6010	
Strontium	EPA	6010	
Thallium	EPA	6010	
Vanadium	EPA	6010	
Zinc	EPA	6010	
Chlorinated Herbicides	EPA	8151	

Matrix Type/Parameter Name	Reference	Method Number	Notes
Nitroaromatics & Nitramines	EPA	8330	
Organochlorine Pesticides	EPA	8081	
Polychlorinated Biphenyls	EPA	8082	
Polycyclic Aromatic HC (HPLC)	EPA	8310	
Total Pet Hydrocarbons - Diesel	EPA	8015	
Total Pet Hydrocarbons - Gasoline	EPA	8015	
Volatile Aromatics	EPA	8021	
BNA Extr (Semivolatile) Organics	EPA	8270	1
Volatile Organic Compounds	EPA	8260	
Ignitability, Pensky-Martin	EPA	1010	
Cyanide, Reactive	EPA	9014(7.2)	
Sulfide, Reactive	EPA	9034	
Paint Filter Liquids	EPA	9095	
Alpha, Gross	EPA	9310	
Beta, Gross	EPA	9310	
Radium Alpha Emiting Isotopes	EPA	9315	
Radium 228	EPA	9320	

Accredited Parameter Note Detail

(1) Method has been modified to use lower concentrations of surrogate compounds than specified in the method. (2) DOE method for Evaluating Environmental and Waste Management Samples, Section 10, Pacific Northwest Laboratory, 1997. (3) Modifications described in PAI Standard Operating Procedures (SOPs). (4) Direct accreditation on basis of satisfactory PT results and prior assesed capability for performance of the method.

3/13/03

Authentication Signature

Perry Brake -- Section Manager, Washington State Department of Ecology -- Lab Accreditation Section

No Denied Parameters Report

Lab Name	Paragon Analytics, Inc.
CIty/State	Fort Collins, CO
Scope Effective Date	2/3/03
Scope Expiry Date	2/2/04

As of the printing date of this document, there were no denied parameters for this laboratory.